

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Final 3_Rats

NTP Study Number: C20712
Lock Date: 04/09/2018
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

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First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 597

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------------------|----------------|------------------------------|------------------------|
| * Epididymis | Epithelium | Degeneration | Mild |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Pituitary Gland | Bile Duct | Hyperplasia | Minimal |
| [Adenoma TGLs = 3 - 19] | Pars Distalis | Adenoma | |
| * Preputial Gland | | Hyperplasia | Minimal |
| [Hyperplasia TGLs = 1 - 17] | | | |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLs = 2 - 18] | | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | Germinal Epith | Polyarteritis Nodosa | Minimal |
| * Thymus | | Atrophy | Minimal |

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

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Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 647

DOSE: 0 ppm males

DISP: Natural Death

HISTO: 1301527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Skin
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Prostate
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Salivary Glands
- * Stomach, Glandular
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Liver
- * Nose
- * Seminal Vesicle
- * Thyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
 - Renal Tubule
 - [Liposarcoma TGLs = 1 - 17]
 - [Nephropathy TGLs = 3 - 8]
- * Lung
 - [Infiltration Cellular TGLs = 2 - 6]
 - [Inflammation TGLs = 2 - 7]
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Spleen
- Testis
 - Germinal Epith
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Accumulation, Hyaline Droplet
- Liposarcoma
- Nephropathy
- Infiltration Cellular
- Inflammation
- Polyarteritis Nodosa
- Hyperplasia
- Hyperplasia
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Focal, Mild
- Moderate
- Minimal
- Mild
- Chronicprogr, Moderate
- Histiocyte, Minimal
- Chronic Active, Minimal
- Mild
- Mild
- Moderate
- Minimal
- Moderate
- Minimal
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

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Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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CAS Number: 13674-84-5

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Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 647

DOSE: 0 ppm males

DISP: Natural Death

HISTO: 1301527

ORGAN AND ACCOUNTABLE SITE STATUS

Polyarteritis Nodosa

Mild

Atrophy

Minimal

* Thymus

PRIMARY CAUSE OF DEATH

- Kidney Liposarcoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

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Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------|----------------|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pancreas | | Polyarteritis Nodosa | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Stomach, Glandular | | Inflammation | Chronic Active, Minimal |
| Testis | Germinal Epith | Degeneration | Minimal |
| | | Polyarteritis Nodosa | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

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Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 407

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------|---------------------------|------------------------------|---------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Infarct | Minimal |
| * Liver | | Necrosis | Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLs = 1 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 697

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Skin
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Mammary Gland
- * Prostate
- * Stomach, Glandular
- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Salivary Glands
- * Thyroid Gland
- * Bone Marrow
- * Eye
- * Intestine Large, Rectum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Seminal Vesicle
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
- * Heart
- * Islets, Pancreatic
[Adenoma TGLs = 1 - 17]
- * Kidney
- * Liver
- * Lung
- * Nose
- * Pituitary Gland
[Adenoma TGLs = 2 - 18]
- * Spleen
- * Stomach, Forestomach
[Hyperplasia TGLs = 3 - 19]
- Testis
- * Thymus
- Hyperplasia
- Cardiomyopathy
- Adenoma
- Nephropathy
- Cyst
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Inflammation
- Ulcer
- Hyperplasia
- Atrophy
- Focal, Minimal
- Minimal
- Chronicprogr, Mild
- Histiocyte, Mild
- Minimal
- Minimal
- Mild
- Marked
- Chronic Active, Minimal
- Mild
- Mild
- Minimal

PRIMARY CAUSE OF DEATH - Islets, Pancreatic Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

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First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 725

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Bone
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Seminal Vesicle
- * Trachea
- * Epididymis
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Skin
- * Urinary Bladder
- * Esophagus
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Prostate
- * Stomach, Forestomach
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lung
- * Pancreas
- * Salivary Glands
- * Thyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-----------------------------|--------------------------------|-------------------------------|----------------------|
| * Adrenal Cortex | | Necrosis | Marked |
| * Adrenal Medulla | | Necrosis | Moderate |
| Blood Vessel | | Mineral | Mild |
| Note: Aorta is mineralized. | | | |
| * Bone Marrow | | Hemorrhage | Marked |
| * Brain | | Necrosis | Mild |
| * Eye | Cornea | Inflammation | Suppurative, Mild |
| | [Inflammation TGLs = 2 - 13] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 1 - 8] | | |
| * Liver | Bile Duct | Hyperplasia | Mild |
| Mesentery | | Polyarteritis Nodosa | Moderate |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | White Pulp | Atrophy | Moderate |
| | | Pigment | Mild |
| * Stomach, Glandular | | Mineral | Moderate |
| Testis | Germinal Epith | Degeneration | Mild |
| | | Polyarteritis Nodosa | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

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Species/Strain: RATS/HSD

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First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 725

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301531

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLs = 3 - 14]

* Thymus

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

Experiment Number: 20712 - 03

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Species/Strain: RATS/HSD

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First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------------|----------------|------------------------------|------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone | | Fracture | Chronic |
| [Fracture TGLs = 2 - 18] | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Pancreas | Acinus | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | Germinal Epith | Degeneration | Moderate |
| [Degeneration TGLs = 1 - 14] | | | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

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First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 633

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------|-------------------------------|---------------------|
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 17] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pancreas | Acinus | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Pigment | Minimal |
| Testis | Germinal Epith | Degeneration | Moderate |
| * Thymus | | Hyperplasia | Lymphocyte, Marked |
| * Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

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Test Type: Chronic PN

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Species/Strain: RATS/HSD

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Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-----------------------------|--|-------------------------------|-------------------------|
| Blood Vessel | Carotid Artery | Polyarteritis Nodosa | Moderate |
| * Bone Marrow | | Hypercellularity | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Intestine Small, Duodenum | | Polyarteritis Nodosa | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 3 - 8] | | |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pancreas | | Polyarteritis Nodosa | Moderate |
| * Pituitary Gland | Rathkes Cleft | Hyperplasia | Mild |
| * Prostate | | Inflammation | Chronic Active, Minimal |
| * Skin | | Keratoacanthoma | |
| | [Keratoacanthoma TGLs = 1 - 18] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | | Polyarteritis Nodosa | Moderate |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 720

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Esophagus
- * Eye
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Pancreas
- * Parathyroid Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Stomach, Glandular
- * Trachea
- * Urinary Bladder

MISSING

- * Mammary Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Bone Marrow
 - * Epididymis
 - * Heart
 - * Kidney
 - * Liver
 - * Lung
 - * Lymph Node, Mandibular
 - * Lymph Node, Mesenteric
 - * Nose
 - * Pituitary Gland
 - * Skin
 - * Spleen
 - * Stomach, Forestomach
- [Fibroma TGLs = 2 - 18]

Lymphoma Malignant
 Lymphoma Malignant
 Lymphoma Malignant
 Nephropathy
 Lymphoma Malignant
 Infiltration Cellular
 Lymphoma Malignant
 Lymphoma Malignant
 Accumulation, Hyaline Droplet
 Foreign Body
 Inflammation
 Hyperplasia
 Fibroma
 Extramedullary Hematopoiesis
 Lymphoma Malignant
 Hyperplasia
 Inflammation

Chronicprogr, Mild
 Histiocyte, Minimal
 Mild
 Suppurative, Moderate
 Minimal
 Mild
 Mild
 Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 720

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301535

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLs = 4 - 19]

Testis

Germinal Epith

Degeneration

Minimal

* Thymus

Lymphoma Malignant

[Lymphoma Malignant TGLs = 1 - 17]

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301536

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|------------------|---------------------------|---------------------------------|--------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Bone | Joint | Degeneration | Mild |
| * Kidney | | Calculus Micro Observation Only | |
| | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Cyst | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pancreas | Acinus | Adenoma | Multiple |
| | [Adenoma TGLs = 1 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Germinal Epith | Degeneration | Moderate |
| | | Polyarteritis Nodosa | Minimal |
| * Thymus | | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Moderate
	[Nephropathy TGLs = 2 - 8]		
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Carcinoma	
		Infiltration Cellular	Histiocyte, Mild
		Note: Malignant neuroendocrine tumor of possible respiratory epithelial origin or metastasis - neither is a choice in TDMSE!	
	[Infiltration Cellular TGLs = 1 - 6+7]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
Testis	Germinal Epith	Degeneration	Minimal
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| Blood Vessel | * Bone | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|-------------------------------|------------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Marked |
| * Bone Marrow | | Hypercellularity | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| | [Nephropathy TGLs = 3 - 8] | | |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Minimal |
| * Pancreas | Acinus | Adenoma | Multiple |
| | [Adenoma TGLs = 1 - 18] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2 - 11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301538

ORGAN AND ACCOUNTABLE SITE STATUS

Testis		Mesothelioma Malignant	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Marked

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------|----------------|------------------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Islets, Pancreatic | | Adenoma | |
| [Adenoma TGLs = 1 - 18] | | | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Spleen | White Pulp | Atrophy | Minimal |
| | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Germinal Epith | Degeneration | Marked |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 570

DOSE: 0 ppm males

DISP: Natural Death

HISTO: 1301540

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Pancreas | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|-----------------|---------------------|
| * Mammary Gland | * Parathyroid Gland |
|-----------------|---------------------|

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------|------------|-------------------------------|--------------------|
| * Brain | | Necrosis | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Spleen | White Pulp | Atrophy | Moderate |
| | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Moderate |
| * Thymus | | Atrophy | Marked |

PRIMARY CAUSE OF DEATH

- Brain Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Thyroid Gland | * Trachea |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--|---------------|-------------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Moderate |
| Blood Vessel | | Inflammation | Chronic Active, Minimal |
| Note: The pancreatic artery is inflamed. | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Urinary Bladder | Urothelium | Infiltration Cellular | Mast Cell, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 654

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Preputial Gland
- * Skin
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Lung
- * Prostate
- * Stomach, Forestomach
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Mammary Gland
- * Salivary Glands
- * Thyroid Gland
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Parathyroid Gland
- * Seminal Vesicle
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
Blood Vessel
Note: The aorta is mineralized.
- * Bone Marrow
- * Heart
- * Islets, Pancreatic
- * Kidney
[Nephropathy TGLs = 1 - 17]
- * Liver
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Nose
- * Pancreas
[Adenoma TGLs = 3 - 18]
- * Pituitary Gland
- * Spleen
- * Stomach, Glandular
- Hyperplasia
- Mineral
- Focal, Minimal
- Minimal
- Hypercellularity
- Cardiomyopathy
- Hyperplasia
- Nephropathy
- Mild
- Mild
- Mild
- Chronicprogr, Marked
- Hyperplasia
- Atrophy
- Atrophy
- Accumulation, Hyaline Droplet
- Adenoma
- Hyperplasia
- Minimal
- Moderate
- Moderate
- Minimal
- Multiple
- Marked
- Hyperplasia
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Mineral
- Minimal
- Moderate
- Moderate
- Moderate
- Minimal
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 654

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301542

ORGAN AND ACCOUNTABLE SITE STATUS

Testis

Germinal Epith

Degeneration

Moderate

Polyarteritis Nodosa

Mild

[Degeneration TGLs = 2 - 14]

Atrophy

Marked

* Thymus

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301543

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Bone Marrow		Hypercellularity	Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronicprogr, Marked
	[Nephropathy TGLs = 2 - 20+21]		
* Liver	Bile Duct	Dilation	Moderate
	Bile Duct	Hyperplasia	Mild
	[Dilation TGLs = 1 - 17]		
* Lung		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 5 - 6+7]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Pancreas	Acinus	Adenoma	
	Acinus	Hyperplasia	Marked
		Polyarteritis Nodosa	Mild
	[Hyperplasia TGLs = 3 - 18]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4 - 19]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
Testis	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301543

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus
* Thyroid Gland

C Cell

Polyarteritis Nodosa
Atrophy
Adenoma

Mild
Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 599

DOSE: 0 ppm males

DISP: Natural Death

HISTO: 1301544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------|------------|-------------------------------|------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Parathyroid Gland | | Hyperplasia | Moderate |
| | | Infiltration Cellular | Lymphocyte, Mild |
| * Spleen | White Pulp | Atrophy | Mild |
| | | Pigment | Mild |
| Testis | | Polyarteritis Nodosa | Minimal |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 674

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Epididymis
- * Esophagus
- * Eye
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Pancreas
- * Parathyroid Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Skin
- * Stomach, Glandular
- * Thyroid Gland
- * Trachea
- * Urinary Bladder

MISSING

- * Mammary Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Bone Marrow
 - * Heart
 - * Kidney
 - * Liver
 - * Lung
 - [Infiltration Cellular TGLs = 2 - 6+7]
 - * Nose
 - * Pituitary Gland
 - [Adenoma TGLs = 3 - 11]
 - * Spleen
 - * Stomach, Forestomach
 - Testis
- Hypercellularity
Mild
- Cardiomyopathy
Minimal
- Nephropathy
Chronicprogr, Mild
- Fatty Change
Mild
- Infiltration Cellular
Histiocyte, Minimal
- Inflammation
Granulomatous, Focal, Minimal
- Accumulation, Hyaline Droplet
Moderate
- Adenoma
- Extramedullary Hematopoiesis
Minimal
- Pigment
Mild
- Hyperplasia
Mild
- Inflammation
Chronic Active, Mild
- Ulcer
Minimal
- Degeneration
Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 674

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301545

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLs = 1 - 14]

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|--------------------------|
| Blood Vessel | * Bone | * Brain | * Epididymis |
| * Esophagus | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------------|-------------------------------|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Minimal |
| * Eye | Cornea | Inflammation | Acute, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Small, Jejunum | | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 4 - 21] | | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| | | Inflammation | Acute, Minimal |
| * Pancreas | Acinus | Adenoma | Multiple |
| | Acinus | Hyperplasia | Marked |
| | [Adenoma TGLs = 1 - 19] | | |
| | [Hyperplasia TGLs = 2 - 19] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| | [Hyperplasia TGLs = 5 - 22] | | |
| * Skin | | Keratoacanthoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301546

ORGAN AND ACCOUNTABLE SITE STATUS

[Keratoacanthoma TGLs = 3 - 20]

* Spleen

Extramedullary Hematopoiesis

Minimal

Pigment

Mild

* Thymus

Atrophy

Mild

Polyarteritis Nodosa

Minimal

* Thyroid Gland

C Cell

Adenoma

Infiltration Cellular

Lymphocyte, Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Prostate
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Heart
- * Intestine Small, Jejunum
- * Mammary Gland
- * Salivary Glands
- * Stomach, Glandular
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Lung
- * Parathyroid Gland
- * Seminal Vesicle
- Testis
- * Bone Marrow
- * Eye
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Skin
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Islets, Pancreatic
 - [Adenoma TGLs = 1 - 19]
- * Kidney
- * Liver
- * Nose
- * Pancreas
 - [Hyperplasia TGLs = 2 - 19]
- * Pituitary Gland
 - [Adenoma TGLs = 3 - 20]
- * Spleen
- * Thymus
- * Thyroid Gland
- Pheochromocytoma Benign
- Parasite Metazoan
- Parasite Metazoan
- Adenoma
- Nephropathy
- Clear Cell Focus
- Inflammation
- Hyperplasia
- Polyarteritis Nodosa
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Chronicprogr, Moderate
- Acute, Minimal
- Marked
- Minimal
- Mild
- Minimal
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 653

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Epididymis
- * Esophagus
- * Eye
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Liver
- * Lymph Node, Mandibular
- * Mammary Gland
- * Nerve Trigeminal
- * Parathyroid Gland
- * Penis
- * Peripheral Nerve
- * Pituitary Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Skin
- * Spinal Cord
- * Stomach, Forestomach
- * Trachea
- * Urinary Bladder

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

Blood Vessel

Note: Testicular arteries are inflamed.

- * Bone Marrow
 - Hemorrhage
 - Marked
 - Hypercellularity
 - Mild
 - Cardiomyopathy
 - Mild
 - Nephropathy
 - Chronicprogr, Marked
- * Heart
- * Kidney
 - [Nephropathy TGLs = 2 - 8]
 - * Lung
 - Bronchiole
 - Fibrosis
 - Mild
 - Inflammation
 - Chronic Active, Moderate
 - [Inflammation TGLs = 4 - 6+7]
- * Lymph Node, Mesenteric
 - Atrophy
 - Mild
- Nerve Trigeminal
 - Note: Vacuolization of myelin in trigeminal nerve not coded because no non-neoplastic terms are available and it is only a background finding.
- * Nose
 - Inflammation
 - Acute, Minimal
- * Pancreas
 - Acinus
 - Adenoma
- [Adenoma TGLs = 3 - 18]
- * Spleen
 - White Pulp
 - Atrophy
 - Marked
 - Extramedullary Hematopoiesis
 - Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 653

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301548

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular		Pigment	Mild
		Erosion	Mild
		Inflammation	Suppurative, Minimal
Testis	Germinal Epith	Degeneration	Mild
		Polyarteritis Nodosa	Minimal
	[Degeneration TGLs = 5 - 14]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 547

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Esophagus
- * Intestine Small, Duodenum
- * Liver
- * Nose
- * Preputial Gland
- * Skin
- * Urinary Bladder
- * Bone
- * Harderian Gland
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pancreas
- * Prostate
- * Stomach, Forestomach
- * Brain
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Salivary Glands
- * Thyroid Gland
- * Epididymis
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Pituitary Gland
- * Seminal Vesicle
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
Blood Vessel
Note: Hyaline degeneration involves the adrenal cortical vessels.
 - * Bone Marrow
 - * Eye
Cornea
 - * Heart
 - * Intestine Large, Cecum
 - * Kidney
[Nephropathy TGLs = 3,4 - 8+18]
 - * Lung
Alveolar Epith
 - * Spleen
White Pulp
 - * Stomach, Glandular
 - Testis
Germinal Epith
[Degeneration TGLs = 1 - 14]
 - * Thymus
Tissue NOS
Note: B17 = Cowper's gland mis-identified grossly as a lymph node lesion.
- Hyperplasia
Degeneration
- Hemorrhage
Hypocellularity
Inflammation
Cardiomyopathy
Inflammation
Nephropathy
- Hyperplasia
Atrophy
Pigment
Mineral
Degeneration
- Atrophy
- Focal, Minimal
Hyaline, Minimal
- Moderate
Mild
Acute, Minimal
Minimal
Chronic Active, Minimal
Chronicprogr, Marked
- Minimal
Marked
Mild
Mild
Mild
- Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 547

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301549

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Glandular
- Blood Vessel
- * Epididymis
- * Heart
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Seminal Vesicle
- * Thyroid Gland
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Mammary Gland
- * Preputial Gland
- * Skin
- * Trachea
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Pancreas
- * Prostate
- * Stomach, Forestomach
- * Urinary Bladder

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
- Coagulating Gland
- * Intestine Large, Rectum
- * Kidney
- * Liver
- * Lung
- * Nose
- * Spleen
- Testis
- Epithelium
- Germinal Epith
- Degeneration
- Hypertrophy
- Hyperplasia
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Cystic, Minimal
- Focal, Mild
- Minimal
- Chronicprogr, Mild
- Histiocyte, Moderate
- Granulomatous, Focal, Minimal
- Minimal
- Mild
- Minimal
- Moderate

[Degeneration TGLs = 1 - 14]

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 592

DOSE: 0 ppm males

DISP: Natural Death

HISTO: 1301551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Skin
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Prostate
- * Stomach, Forestomach
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lung
- * Pancreas
- * Salivary Glands
- * Thyroid Gland
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Seminal Vesicle
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
 - Blood Vessel
 - Note: The aorta, and cardiac, pancreatic, and renal arteries are mineralized.
 - * Bone Marrow
 - * Heart
 - * Kidney
 - [Nephropathy TGLs = 2 - 8]
 - * Liver
 - Mesentery
 - [Hemorrhage TGLs = 1 - 17]
 - * Nose
 - * Parathyroid Gland
 - * Spleen
 - * Stomach, Glandular
 - Testis
- | | | |
|--|-------------------------------|----------------------|
| | Hypertrophy | Focal, Minimal |
| | Mineral | Moderate |
| | Hemorrhage | Moderate |
| | Hypercellularity | Mild |
| | Cardiomyopathy | Moderate |
| | Mineral | Mild |
| | Nephropathy | Chronicprogr, Marked |
| | Necrosis | Minimal |
| | Hemorrhage | Moderate |
| | Accumulation, Hyaline Droplet | Minimal |
| | Hyperplasia | Moderate |
| | Atrophy | Marked |
| | Extramedullary Hematopoiesis | Mild |
| | Pigment | Mild |
| | Mineral | Mild |
| | Polyarteritis Nodosa | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 592

DOSE: 0 ppm males

DISP: Natural Death

HISTO: 1301551

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 608

DOSE: 0 ppm males

DISP: Natural Death

HISTO: 1301552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Mammary Gland
- * Prostate
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Salivary Glands
- * Stomach, Glandular
- * Bone
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Seminal Vesicle
- Testis
- * Brain
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Skin
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Eye
- * Kidney
- * Liver
- * Lung
- * Lymph Node
- * Lymph Node, Mesenteric
- * Nose
- * Pituitary Gland
- * Spleen
- Cornea
- Mediastinal
- Epithelium
- Respirat Epith
- Olfactory Epi
- Pars Distalis
- White Pulp
- Hypertrophy
- Hypercellularity
- Inflammation
- Infarct
- Nephropathy
- Basophilic Focus
- Lymphoma Malignant
- Infiltration Cellular
- Inflammation
- Lymphoma Malignant
- Lymphoma Malignant
- Accumulation, Hyaline Droplet
- Necrosis
- Necrosis
- Hyperplasia
- Atrophy
- Focal, Minimal
- Moderate
- Acute, Mild
- Minimal
- Chronicprogr, Mild
- Histiocyte, Mild
- Acute, Minimal
- Minimal
- Mild
- Mild
- Moderate
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 608

DOSE: 0 ppm males

DISP: Natural Death

HISTO: 1301552

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Pigment	Minimal
* Thyroid Gland	C Cell	Atrophy	Marked
		Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Lymph Node Mediastinal Lymphoma Malignant

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[Infiltration Cellular TGLs = 2 - 20]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLs = 1 - 19]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
Testis	Germinal Epith	Degeneration	Minimal
	Interstit Cell	Hyperplasia	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 592

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Esophagus
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Pituitary Gland
- * Skin
- * Urinary Bladder
- * Bone
- * Harderian Gland
- * Intestine Small, Duodenum
- * Liver
- * Nose
- * Preputial Gland
- * Stomach, Forestomach
- * Brain
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pancreas
- * Salivary Glands
- * Thyroid Gland
- * Epididymis
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Seminal Vesicle
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
Blood Vessel
Note: The aorta and cardiac and salivary arteries are mineralized.
Hyperplasia
Mineral
Focal, Minimal
Mild
- * Bone Marrow
Coagulating Gland
Hemorrhage
Inflammation
Mild
- * Eye
Cornea
Inflammation
Chronic Active, Mild
- * Heart
Cardiomyopathy
Moderate
- * Kidney
[Nephropathy TGLs = 1 - 17]
Mineral
Mild
- * Lung
Bronchiole
Nephropathy
Cyst
Foreign Body
Inflammation
Chronicprogr, Marked
Granulomatous, Focal, Moderate
Note: "Cyst" used to denote bronchiectasis (dilation of bronchioles due to obstruction and accumulation of exudate).
[Inflammation TGLs = 2 - 6]
- * Prostate
Skeletal Muscle
Inflammation
Degeneration
Moderate
- * Spleen
White Pulp
Mineral
Atrophy
Moderate
Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 592

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301554

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular		Pigment	Moderate
Testis	Germinal Epith	Mineral	Moderate
		Degeneration	Mild
		Polyarteritis Nodosa	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH - Lung Inflammation

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 541

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-----------------|--------------------------------|------------------------------|------------------------|
| * Bone Marrow | | Hypercellularity | Moderate |
| * Brain | | Necrosis | Marked |
| * Heart | | Inflammation | Acute, Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Necrosis | Mild |
| | [Necrosis TGLs = 2 - 18] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 17] | | |
| * Pancreas | Acinus | Hyperplasia | Moderate |
| * Spleen | White Pulp | Atrophy | Minimal |
| | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH - Brain Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301556

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
Skeletal Muscle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Trachea	* Urinary Bladder	

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hypercellularity	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
Skel Muscle			
Note: Evaluated as control tissue for molecular biology.			
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Hyperplasia	Lymphocyte, Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 483

DOSE: 0 ppm males

DISP: Natural Death

HISTO: 1301557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|------------------------|---------------------------|-----------------------------|----------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Islets, Pancreatic |
| * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Pancreas | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Thyroid Gland | * Trachea | * Urinary Bladder |

AUTO PRECLUDES DIAG.

- | | | | |
|--------------------------|--------------------------|--------------------------|----------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Ileum | * Intestine Small, Jejunum |
|--------------------------|--------------------------|--------------------------|----------------------------|

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---|------------------------------|----------------|----------------------------|
| Blood Vessel | | Mineral | Marked |
| Note: The aorta and cardiac, dermal, prostatic, pulmonary, renal, salivary, seminal vesicular, and testicular arteries are mineralized. | | | |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Mineral | Moderate |
| | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 1 - 8] | | |
| * Lung | | Inflammation | Granulomatous, Focal, Mild |
| | | Mineral | Moderate |
| * Parathyroid Gland | | Hyperplasia | Marked |
| * Spleen | White Pulp | Atrophy | Marked |
| | | Pigment | Mild |
| * Stomach, Glandular | | Mineral | Marked |
| Testis | Germinal Epith | Degeneration | Minimal |
| * Thymus | | Atrophy | Marked |

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 239

DOSE: 0 ppm males

DISP: Natural Death

HISTO: 1301558

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Glandular | Testis | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|------------------------|------------|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Brain | | Necrosis | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Spleen | White Pulp | Atrophy | Mild |
| | | Pigment | Mild |
| * Stomach, Forestomach | | Inflammation | Acute, Minimal |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH

- Brain Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301559

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|--------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------------|----------------|-------------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Intestine Large, Colon | Lymphoid Tiss | Hyperplasia | Mild |
| * Intestine Small, Jejunum | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| | Respirat Epith | Dilation | Glan, Mild |
| * Prostate | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Minimal |
| Testis | | Polyarteritis Nodosa | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 521

DOSE: 0 ppm males

DISP: Natural Death

HISTO: 1301560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|--------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Thyroid Gland | * Trachea | * Urinary Bladder |

AUTO PRECLUDES DIAG.

- * Intestine Small, Jejunum

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------|-------------------------------|-----------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH

- Adrenal Medulla Hyperplasia

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|----------------|-------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| | Respirat Epith | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 554

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301562

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Harderian Gland | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Liver | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---|------------------------------|-------------------------------|----------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| Blood Vessel | | Degeneration | Hyaline, Moderate |
| | | Mineral | Mild |
| Note: The aorta and mesenteric and prostatic arteries are mineralized. | | | |
| Note: Colonic and pancreatic arteries have onion-skinning and hyaline degeneration. | | | |
| * Bone Marrow | | Hemorrhage | Marked |
| * Eye | Choroid | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Moderate |
| * Intestine Large, Cecum | | Erosion | Moderate |
| | | Inflammation | Suppurative, Mild |
| | | Mineral | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 1 - 8] | | |
| * Lymph Node, Mandibular | | Atrophy | Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pancreas | Acinus | Atrophy | Mild |
| * Spleen | White Pulp | Atrophy | Marked |
| | | Pigment | Mild |
| * Stomach, Glandular | | Mineral | Mild |
| Testis | Germinal Epith | Degeneration | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 554

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301562

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Marked

Ectopic Tissue

Parathyroid Gland, Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|-------------------------------|--------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Pelvis | Dilation | Minimal |
| | | Nephropathy | Chronicprogr, Mild |
| | [Dilation TGLs = 1 - 8] | | |
| * Liver | | Clear Cell Focus | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|--------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------|--|-------------------------------|------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Intestine Large, Colon | Lymphoid Tiss | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | [Hepatocellular Adenoma TGLs = 1 - 19] | Hepatocellular Adenoma | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Germinal Epith | Degeneration | Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------|---|-------------------------------|------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| | [Pheochromocytoma Benign TGLs = 1 - 17] | | |
| * Brain | | Granular Cell Tumor Benign | |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Cyst | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 3 - 6+7] | | |
| * Nose | | Accumulation, Hyaline Droplet | Minimal |
| | Epithelium | Inflammation | Acute, Minimal |
| * Pancreas | | Adenoma | Multiple |
| | Acinus | Atrophy | Minimal |
| | Acinus | Hyperplasia | Minimal |
| | [Adenoma TGLs = 2 - 9+18] | | |
| * Parathyroid Gland | | Hyperplasia | Mild |
| * Pituitary Gland | | Hyperplasia | Minimal |
| * Preputial Gland | | Inflammation | Suppurative, Marked |
| | [Inflammation TGLs = 4 - 19] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301566

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Moderate
		Ectopic Tissue	Parathyroid Gland, Mild
* Thyroid Gland	C Cell	Hyperplasia	Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 617

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301567

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Eye
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Stomach, Glandular
- Blood Vessel
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Mammary Gland
- * Pituitary Gland
- * Trachea
- * Epididymis
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- Nerve Trigeminal
- * Preputial Gland
- * Urinary Bladder
- * Esophagus
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- Spinal Cord

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone
- Note: Vertebral chondroid and osseous hyperplasia/new bone production secondary to fracture possibly due to histiocytic sarcoma metastasis (neither in section plane).
- * Bone Marrow
- * Brain
- [Histiocytic Sarcoma TGLs = 5 - 20]
- Brain Trigeminal Ganglion
- Note: Gliosis/schwann cell hyperplasia in trigeminal ganglion as in B24.
- * Harderian Gland
- * Heart
- * Kidney
- * Liver
- * Lung
- * Lymph Node, Mandibular
- Mesentery
- [Necrosis TGLs = 7 - 21]
- * Nose
- Peripheral Nerve
- Hypertrophy
- Hyperplasia
- Hypercellularity
- Histiocytic Sarcoma
- Histiocytic Sarcoma
- Histiocytic Sarcoma
- Cardiomyopathy
- Nephropathy
- Fatty Change
- Histiocytic Sarcoma
- Histiocytic Sarcoma
- Necrosis
- Accumulation, Hyaline Droplet
- Histiocytic Sarcoma
- Inflammation
- Necrosis
- Degeneration
- Focal, Minimal
- Mild
- Mild
- Minimal
- Chronicprogr, Mild
- Minimal
- Minimal
- Minimal
- Mild
- Acute, Minimal
- Minimal
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 617

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301567

ORGAN AND ACCOUNTABLE SITE STATUS

Spinal

Hyperplasia

Mild

Note: Schwann cell hyperplasia/gliosis in spinal nerves B24.

* Prostate

Histiocytic Sarcoma

[Histiocytic Sarcoma TGLs = 3 - 19]

* Salivary Glands

Bilateral

Histiocytic Sarcoma

[Histiocytic Sarcoma TGLs = 2 - 18]

* Seminal Vesicle

Histiocytic Sarcoma

Skeletal Muscle

Degeneration

Mild

Note: B25 beneath region of vertebral new bone production and dorsal to prostatic histiocytic sarcoma.

* Skin

Subcut Tiss

Fibroma

[Fibroma TGLs = 1 - 17]

* Spleen

Extramedullary Hematopoiesis

Minimal

Pigment

Minimal

* Stomach, Forestomach

Epithelium

Hyperplasia

Marked

Inflammation

Chronic Active, Moderate

Testis

Germinal Epith

Degeneration

Moderate

* Thymus

Atrophy

Marked

* Thyroid Gland

Bilateral

Histiocytic Sarcoma

C Cell

Hyperplasia

Minimal

[Histiocytic Sarcoma TGLs = 4 - 22]

PRIMARY CAUSE OF DEATH

- Thyroid Gland Bilateral Histiocytic Sarcoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|------------|-------------------------------|------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Brain | | Gliosis | Minimal |
| | | Hemorrhage | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Marked |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 314

DOSE: 0 ppm males

DISP: Moribund Sacrifice

HISTO: 1301569

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|------------|--|-------------------------------|-----------------------|
| * Brain | | Meningioma Malignant | |
| | [Meningioma Malignant TGLs = 1 - 17] | | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |

PRIMARY CAUSE OF DEATH - Brain Meningioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|---|-------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | [Infiltration Cellular TGLs = 2 - 18] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| | [Hyperplasia TGLs = 3 - 19] | | |
| * Preputial Gland | | Inflammation | Suppurative, Marked |
| | [Inflammation TGLs = 1 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------------------------|---------------|-------------------------------|------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| Blood Vessel | | Necrosis | Fibrinoid, Minimal |
| Note: A splenic artery is involved. | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 571

DOSE: 0 ppm males

DISP: Natural Death

HISTO: 1301572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | |
|---------------|-----------------------|------------------------|
| * Bone Marrow | Hypercellularity | Minimal |
| * Heart | Cardiomyopathy | Minimal |
| * Kidney | Nephropathy | Chronicprogr, Moderate |
| * Lung | Infiltration Cellular | Histiocyte, Minimal |
| * Spleen | Pigment | Minimal |
| Testis | Polyarteritis Nodosa | Minimal |
| * Thymus | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--|---------------|------------------------------|-------------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| Note: Located in molecular biology sample (B17). | | | |
| Blood Vessel | | Degeneration | Minimal |
| Note: A cardiac artery is involved. | | | |
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| [Nephropathy TGLs = 5 - 8] | | | |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| [Infiltration Cellular TGLs = 2 - 6+7] | | | |
| * Pancreas | Acinus | Adenoma | Multiple |
| | Acinus | Atrophy | Minimal |
| | Acinus | Hyperplasia | Marked |
| [Adenoma TGLs = 1 - 18] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301573

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: TGLs-3 and 4 were not used.

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 615

DOSE: 0 ppm males

DISP: Natural Death

HISTO: 1301574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Eye
- * Intestine Small, Duodenum
- * Preputial Gland
- * Trachea
- Blood Vessel
- * Harderian Gland
- * Intestine Small, Ileum
- * Salivary Glands
- * Urinary Bladder
- * Bone
- * Intestine Large, Cecum
- * Islets, Pancreatic
- * Skin
- * Esophagus
- * Intestine Large, Rectum
- * Parathyroid Gland
- Testis

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Brain
 - [Hemorrhage TGLs = 3 - 4+5]
- * Epididymis
- * Heart
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Kidney
- * Liver
 - Bile Duct
- * Lung
 - Mediastinal
 - [Leukemia Mononuclear TGLs = 2 - 18]
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- Mesentery
- * Nose
 - Epithelium
- Leukemia Mononuclear
- Leukemia Mononuclear
- Hemorrhage
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Nephropathy
- Hyperplasia
- Leukemia Mononuclear
- Infiltration Cellular
- Leukemia Mononuclear
- Leukemia Mononuclear
- Chronicprogr, Mild
- Minimal
- Histiocyte, Minimal
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 615

DOSE: 0 ppm males

DISP: Natural Death

HISTO: 1301574

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Leukemia Mononuclear	
Peripheral Nerve	Trigeminal	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 17]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
		Ulcer	Mild
	[Leukemia Mononuclear TGLs = 4 - 19]		
* Stomach, Glandular		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Brain Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 ppm males

DISP: Terminal Sacrifice

HISTO: 1301575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------|---|-------------------------------|-------------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| | | Foreign Body | |
| | | Inflammation | Acute, Minimal |
| * Pancreas | Acinus | Adenoma | |
| | [Adenoma TGLs = 2 - 17] | | |
| * Preputial Gland | | Squamous Cell Carcinoma | |
| | [Squamous Cell Carcinoma TGLs = 1 - 18] | | |
| * Prostate | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Germinal Epith | Degeneration | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|----------------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Hypertrophy | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| | [Nephropathy TGLs = 1 - 8] | | |
| * Lung | | Carcinoma | Metastatic (Thyroid Gland) |
| | [Infiltration Cellular TGLs = 2 - 6+7] | Infiltration Cellular | Histiocyte, Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| | | Inflammation | Acute, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | | Polyarteritis Nodosa | Mild |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Carcinoma | |
| | [Carcinoma TGLs = 3 - 11] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 52

TRT#: 3

SEX: Male

DAY ON TEST: 721

DOSE: 2500 ppm males

DISP: Natural Death

HISTO: 1301577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Prostate
- * Stomach, Glandular
- * Urinary Bladder
- * Adrenal Medulla
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Mammary Gland
- * Salivary Glands
- Testis
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Seminal Vesicle
- * Thyroid Gland
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Stomach, Forestomach
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------|---|---------------------------|----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Acute, Mild |
| * Nose | | Foreign Body | |
| | | Inflammation | Suppurative, Marked |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Skin | | Cyst Epithelial Inclusion | |
| | [Cyst Epithelial Inclusion TGLs = 1 - 17] | | |
| * Spleen | White Pulp | Atrophy | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Marked |

PRIMARY CAUSE OF DEATH - Islets, Pancreatic Adenoma

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|-------------------------------|--------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hypercellularity | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphocyte, Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLs = 1 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301579

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
		Inflammation	Acute, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
Testis	Germinal Epith	Degeneration	Minimal
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301580

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------|--|-------------------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 3 - 6+7] | | |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphocyte, Moderate |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| | | Polyarteritis Nodosa | Mild |
| * Pancreas | Acinus | Adenoma | Multiple |
| | Acinus | Hyperplasia | Marked |
| | [Adenoma TGLs = 1,2 - 17+18] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Germinal Epith | Degeneration | Minimal |
| | | Polyarteritis Nodosa | Mild |
| * Thymus | | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 642

DOSE: 2500 ppm males

DISP: Natural Death

HISTO: 1301581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Epididymis
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Pancreas
- * Salivary Glands
- * Stomach, Glandular
- Blood Vessel
- * Esophagus
- * Intestine Large, Rectum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Seminal Vesicle
- * Thyroid Gland
- * Bone
- * Eye
- * Intestine Small, Duodenum
- * Mammary Gland
- * Preputial Gland
- * Skin
- * Trachea
- * Brain
- * Harderian Gland
- * Intestine Small, Ileum
- * Nose
- * Prostate
- * Stomach, Forestomach
- * Urinary Bladder

MISSING

- * Lymph Node, Mesenteric
- * Thymus

AUTO PRECLUDES DIAG.

- * Intestine Small, Jejunum

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------|-------------------------------|------------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Cecum | | Mineral | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 1 - 17] | | |
| * Liver | Bile Duct | Hyperplasia | Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | | Inflammation | Acute, Mild |
| * Parathyroid Gland | | Hyperplasia | Moderate |
| * Spleen | White Pulp | Atrophy | Marked |
| | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Germinal Epith | Degeneration | Minimal |
| | | Polyarteritis Nodosa | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 642

DOSE: 2500 ppm males

DISP: Natural Death

HISTO: 1301581

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLs = 3 - 14]

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 57

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------|--|-------------------------------|-------------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Brain | | Gliosis | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | Bile Duct | Clear Cell Focus | |
| | [Dilation TGLs = 1 - 17] | Dilation | Marked |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 3 - 6+7] | Inflammation | Granulomatous, Focal, Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphocyte, Moderate |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 2 - 6] | | |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 721

DOSE: 2500 ppm males

DISP: Moribund Sacrifice

HISTO: 1301583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | Nerve Trigeminal |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | Spinal Cord |
| * Stomach, Forestomach | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--|------------------------------|-------------------------------|----------------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Marked |
| Blood Vessel | | Mineral | Moderate |
| Note: The aorta and cardiac, pancreatic, and renal arteries are mineralized. | | | |
| * Bone Marrow | | Hemorrhage | Mild |
| | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Mild |
| | | Mineral | Minimal |
| * Intestine Large, Cecum | | Inflammation | Acute, Mild |
| | | Mineral | Mild |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Minimal |
| | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 1 - 8] | | |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Mineral | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| Peripheral Nerve | Axon, Sciatic | Degeneration | Mild |
| | Axon, Tibial | Degeneration | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 721

DOSE: 2500 ppm males

DISP: Moribund Sacrifice

HISTO: 1301583

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen	White Pulp	Atrophy	Marked
		Pigment	Minimal
* Stomach, Glandular		Mineral	Moderate
Testis	Germinal Epith	Degeneration	Mild
		Polyarteritis Nodosa	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---|--|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| Blood Vessel | | Mineral | Minimal |
| Note: The renal arteries are mineralized. | | | |
| * Brain | | Gliosis | Moderate |
| | | Granular Cell Tumor Benign | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| | [Nephropathy TGLs = 3 - 18+19] | | |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | Inflammation | Granulomatous, Focal, Minimal |
| * Lymph Node, Mandibular | Lymph Sinus | Dilation | Mild |
| | [Dilation TGLs = 1 - 17] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301584

ORGAN AND ACCOUNTABLE SITE STATUS

Testis	Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 60

TRT#: 3

SEX: Male

DAY ON TEST: 687

DOSE: 2500 ppm males

DISP: Natural Death

HISTO: 1301585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---|---------------|-------------------------------|----------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| Blood Vessel | | Mineral | Moderate |
| Note: The aorta and cardiac, gastric, renal, and thymic arteries are mineralized. | | | |
| * Bone Marrow | | Hemorrhage | Marked |
| * Heart | | Cardiomyopathy | Mild |
| | | Mineral | Minimal |
| * Islets, Pancreatic | | Adenoma | Multiple |
| [Adenoma TGLs = 4 - 18] | | | |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| [Nephropathy TGLs = 1 - 17] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| [Infiltration Cellular TGLs = 2 - 6+7] | | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| | | Inflammation | Acute, Minimal |
| * Pancreas | Acinus | Adenoma | |
| | Acinus | Hyperplasia | Marked |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Preputial Gland | Duct | Hyperplasia | Minimal |
| * Spleen | White Pulp | Atrophy | Moderate |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 60

TRT#: 3

SEX: Male

DAY ON TEST: 687

DOSE: 2500 ppm males

DISP: Natural Death

HISTO: 1301585

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

Mineral

Moderate

Testis

Germinal Epith

Degeneration

Moderate

Polyarteritis Nodosa

Minimal

* Thymus

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| Blood Vessel | * Bone | * Epididymis | * Esophagus |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------|---------------------------------|-------------------------------|----------------------|
| * Adrenal Cortex | | Necrosis | Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hemorrhage | Minimal |
| | | Hypercellularity | Mild |
| * Brain | | Thrombus | |
| * Eye | Retina | Degeneration | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| | | Polyarteritis Nodosa | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 2 - 8+21] | | |
| * Liver | | Eosinophilic Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| Lymph Node | Pancreatic | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 5 - 20] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 3 - 18] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301586

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Adenoma	
		Polyarteritis Nodosa	Mild
	[Adenoma TGLs = 1 - 17]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLs = 4 - 19]		
* Spleen		Pigment	Mild
Testis	Interstitial Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
		Polyarteritis Nodosa	Mild
* Thymus		Atrophy	Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Epididymis
- * Intestine Large, Rectum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Thyroid Gland
- Blood Vessel
- * Esophagus
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Trachea
- * Bone
- * Eye
- * Intestine Small, Ileum
- * Mammary Gland
- * Skin
- * Brain
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Stomach, Forestomach

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
 - [Pheochromocytoma Malignant TGLs = 1 - 17]
 - * Bone Marrow
 - * Harderian Gland
 - * Heart
 - * Intestine Large, Cecum
 - * Islets, Pancreatic
 - [Adenoma TGLs = 4 - 19]
 - * Kidney
 - [Nephropathy TGLs = 2 - 18]
 - * Liver
 - * Lung
 - [Pheochromocytoma Malignant TGLs = 3 - 7]
 - * Nose
 - * Pancreas
 - * Pituitary Gland
- | | | |
|--|--|--|
| | Hyperplasia
Pheochromocytoma Malignant | Focal, Marked |
| | Hypercellularity
Polyarteritis Nodosa
Cardiomyopathy
Polyarteritis Nodosa
Adenoma
Hyperplasia | Mild
Moderate
Mild
Moderate
Mild |
| | Inflammation
Nephropathy | Chronic Active, Moderate
Chronicprogr, Marked |
| | Hyperplasia
Polyarteritis Nodosa
Inflammation
Pheochromocytoma Malignant | Minimal
Moderate
Granulomatous, Focal, Minimal
Metastatic (Adrenal Medulla) |
| | Accumulation, Hyaline Droplet
Polyarteritis Nodosa
Adenoma | Mild
Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301587

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Inflammation	Chronic Active, Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Stomach, Glandular		Polyarteritis Nodosa	Moderate
Testis	Germinal Epith	Degeneration	Minimal
		Polyarteritis Nodosa	Moderate
* Thymus		Atrophy	Mild
* Urinary Bladder		Polyarteritis Nodosa	Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------|--|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Parathyroid Gland | | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Islets, Pancreatic
- * Lung
- * Mammary Gland
- * Pancreas
- * Prostate
- * Salivary Glands
- * Stomach, Forestomach
- * Stomach, Glandular
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Seminal Vesicle
- * Thyroid Gland
- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Skin
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Heart
- * Kidney
- * Liver
- * Nose
- * Pituitary Gland
- * Spleen
- Testis
- * Thymus
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Epithelium
- Pars Distalis
- Germinal Epith
- Accumulation, Hyaline Droplet
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Polyarteritis Nodosa
- Atrophy
- Minimal
- Chronicprogr, Moderate
- Marked
- Mild
- Mild
- Moderate
- Minimal
- Moderate

[Degeneration TGLs = 1 - 14]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------|--------------|-------------------------------|-----------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| [Adenoma TGLs = 1 - 17] | | | |
| * Kidney | Renal Tubule | Hyperplasia | Moderate |
| | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| | | Inflammation | Acute, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Pancreas | Acinus | Adenoma | Multiple |
| | [Adenoma TGLs = 1 - 17] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 653

DOSE: 2500 ppm males

DISP: Moribund Sacrifice

HISTO: 1301592

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Skin
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Prostate
- * Stomach, Forestomach
- * Urinary Bladder
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lung
- * Nose
- * Salivary Glands
- * Stomach, Glandular
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Seminal Vesicle
- * Thyroid Gland

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
Blood Vessel
Note: Vessels in the glandular stomach are mineralized.
- * Bone Marrow
- * Heart
- * Kidney
[Nephropathy TGLs = 2 - 8+17]
- * Liver
- * Pancreas
- * Parathyroid Gland
- * Spleen
- Testis
- Hyperplasia
- Mineral
- Hemorrhage
- Necrosis
- Cardiomyopathy
- Nephropathy
- Hyperplasia
- Hyperplasia
- Hyperplasia
- Atrophy
- Pigment
- Polyarteritis Nodosa
- Focal, Mild
- Minimal
- Marked
- Minimal
- Minimal
- Chronicprogr, Marked
- Minimal
- Moderate
- Mild
- Minimal
- Minimal
- Mild

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------|---------------|-------------------------------|-----------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Intestine Large, Cecum | Lymphoid Tiss | Hyperplasia | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Infarct | Minimal |
| | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Glandular
- Blood Vessel
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Seminal Vesicle
- Testis
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Mammary Gland
- * Preputial Gland
- * Skin
- * Trachea
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Prostate
- * Stomach, Forestomach
- * Urinary Bladder

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
 - [Pheochromocytoma Benign TGLs = 2 - 11]
- * Kidney
 - [Lipoma TGLs = 4 - 19]
- * Liver
 - [Clear Cell Focus TGLs = 3 - 18]
- * Lung
- * Lymph Node, Mandibular
 - [Dilation TGLs = 1 - 17]
- * Nose
- * Spleen
- * Thymus
- * Thyroid Gland
- Hyperplasia
- Pheochromocytoma Benign
- Lipoma
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Dilation
- Accumulation, Hyaline Droplet
- Foreign Body
- Inflammation
- Metaplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Focal, Moderate
- Chronicprogr, Moderate
- Histiocyte, Minimal
- Moderate
- Moderate
- Suppurative, Moderate
- Respiratory, Minimal
- Mild
- Mild
- Mild
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 563

DOSE: 2500 ppm males

DISP: Natural Death

HISTO: 1301595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Salivary Glands
- Testis
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Seminal Vesicle
- * Thyroid Gland
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Preputial Gland
- * Stomach, Forestomach
- * Trachea
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Prostate
- * Stomach, Glandular
- * Urinary Bladder

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
[Adenoma TGLs = 2 - 11]
- * Bone Marrow
- * Kidney
- * Liver
- * Lung
- * Nose
- * Skin
[Fibroma TGLs = 1 - 17]
- * Spleen
- * Thymus
- Adenoma
- Hypercellularity
- Infarct
- Nephropathy
- Necrosis
- Alveolar Epith
- Hyperplasia
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Fibroma
- Atrophy
- Extramedullary Hematopoiesis
- Atrophy
- Moderate
- Minimal
- Chronicprogr, Minimal
- Mild
- Mild
- Histiocyte, Minimal
- Moderate
- Minimal
- Moderate
- Moderate

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| Testis | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------|-------------------|-------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Acute, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Stomach, Glandular | | Mineral | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | Bilateral, C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------|----------------|-------------------------------|------------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Polyarteritis Nodosa | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| | | Polyarteritis Nodosa | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | Interstit Cell | Adenoma | |
| | | Polyarteritis Nodosa | Mild |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Carcinoma | |
| | C Cell | Hyperplasia | Mild |

[Carcinoma TGLs = 1 - 17]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301598

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------|-------------------------------|-----------------------|
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | | Mesothelioma Malignant | |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Small, Ileum
- * Mammary Gland
- * Prostate
- * Stomach, Glandular
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Nose
- * Salivary Glands
- Testis
- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Seminal Vesicle
- * Thyroid Gland
- * Bone Marrow
- * Eye
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Stomach, Forestomach
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
 - Hyperplasia
 - Pheochromocytoma Benign
- * Heart
 - Cardiomyopathy
 - Parasite Metazoan
- * Intestine Large, Rectum
 - Adenoma
- * Islets, Pancreatic
 - Hyperplasia
- * Kidney
 - Renal Tubule
 - Nephropathy
 - Clear Cell Focus
 - Eosinophilic Focus
 - Hyperplasia
 - Oncocytic, Mild
 - Chronicprogr, Mild
- * Liver
 - Bile Duct
 - Hyperplasia
 - [Eosinophilic Focus TGLs = 2 - 18]
- * Lung
 - Infiltration Cellular
- * Pancreas
 - Acinus
 - Adenoma
 - Hyperplasia
 - Acinus
 - Adenoma
 - [Adenoma TGLs = 3 - 19]
- * Pituitary Gland
 - Pars Distalis
 - Adenoma
- * Skin
 - [Keratoacanthoma TGLs = 1 - 17]
 - Keratoacanthoma
- * Spleen
 - Extramedullary Hematopoiesis
 - Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301599

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Pigment

Mild

Atrophy

Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301600

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|---|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| | Endocardium | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Skin | | Squamous Cell Papilloma | |
| | [Squamous Cell Papilloma TGLs = 1 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 588

DOSE: 2500 ppm males

DISP: Natural Death

HISTO: 1301601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Intestine Small, Duodenum

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|------------------|------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Basophilic Focus | |
| | | Necrosis | Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| * Nose | | Inflammation | Acute, Minimal |
| * Pancreas | Acinus | Hyperplasia | Moderate |
| * Spleen | White Pulp | Atrophy | Mild |
| | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 637

DOSE: 2500 ppm males

DISP: Natural Death

HISTO: 1301602

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Pituitary Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|------------|------------|-------------------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Prostate | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 554

DOSE: 2500 ppm males

DISP: Natural Death

HISTO: 1301603

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Salivary Glands
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Pituitary Gland
- * Seminal Vesicle
- * Urinary Bladder
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Liver
- * Nose
- * Preputial Gland
- * Stomach, Forestomach
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pancreas
- * Prostate
- * Thyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
Blood Vessel
Note: The aorta and cardiac and thymic arteries are mineralized.
- * Bone Marrow
- * Heart
- * Kidney
[Nephropathy TGLs = 2 - 8+18]
- * Lung
- * Skin
[Keratoacanthoma TGLs = 1 - 17]
- * Spleen
White Pulp
- * Stomach, Glandular
- Testis
Germinal Epith
- * Thymus
- Hyperplasia
- Mineral
- Hemorrhage
- Cardiomyopathy
- Mineral
- Nephropathy
- Mineral
- Keratoacanthoma
- Atrophy
- Pigment
- Mineral
- Polyarteritis Nodosa
- Atrophy
- Focal, Minimal
- Mild
- Marked
- Mild
- Minimal
- Chronicprogr, Marked
- Mild
- Marked
- Mild
- Moderate
- Minimal
- Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------|------------------------------------|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Brain | | Glioma Benign | |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | [Clear Cell Focus TGLs = 3 - 19] | | |
| * Lung | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pancreas | Acinus | Adenoma | Multiple |
| | Acinus | Hyperplasia | Marked |
| | | Inflammation | Chronic Active, Mild |
| | [Adenoma TGLs = 1 - 17] | | |
| | [Hyperplasia TGLs = 2 - 18] | | |
| * Parathyroid Gland | | Carcinoma | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4 - 20] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301604

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
Testis		Polyarteritis Nodosa	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	Bilateral, C Cell	Adenoma	
[Adenoma TGLs = 5 - 21]			

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	Testis
* Thyroid Gland	* Trachea	* Urinary Bladder	

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose	Epithelium	Accumulation, Hyaline Droplet	Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301607

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Glandular |
| Testis | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---|--|------------------------------|-------------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| Blood Vessel | | Mineral | Minimal |
| Note: Gastric arteries are mineralized. | | | |
| * Bone Marrow | | Hypercellularity | Minimal |
| * Eye | Cornea | Inflammation | Acute, Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Pancreas | Acinus | Adenoma | Multiple |
| | Acinus | Hyperplasia | Marked |
| | [Adenoma TGLs = 1,3 - 17+18] | | |
| | [Hyperplasia TGLs = 4 - 19] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301607

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 6 - 21]	Inflammation	Chronic Active, Mild
* Thymus	Atrophy	Mild
* Thyroid Gland	Hyperplasia	Minimal

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 725

DOSE: 2500 ppm males

DISP: Moribund Sacrifice

HISTO: 1301608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Pancreas
- * Salivary Glands
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Thyroid Gland
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Liver
- * Mammary Gland
- * Prostate
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
- * Bone Marrow
- * Heart
- * Kidney
 - [Nephropathy TGLs = 5 - 18]
- * Nose
- * Pituitary Gland
 - [Adenoma TGLs = 4 - 11]
- * Seminal Vesicle
 - [Atrophy TGLs = 2 - 16]
- * Skin
 - [Inflammation TGLs = 3 - 17]
- * Spleen
- * Stomach, Forestomach
 - [Hyperplasia TGLs = 6 - 9]
- Testis
 - [Degeneration TGLs = 1 - 14]

- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Accumulation, Hyaline Droplet
- Adenoma
- Atrophy
- Inflammation
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Inflammation
- Degeneration
- Focal, Minimal
- Mild
- Minimal
- Chronicprogr, Marked
- Marked
- Moderate
- Suppurative, Marked
- Mild
- Mild
- Mild
- Chronic Active, Minimal
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 725

DOSE: 2500 ppm males

DISP: Moribund Sacrifice

HISTO: 1301608

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------|---|-------------------------------|--------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Skin | | Cyst Epithelial Inclusion | |
| | [Cyst Epithelial Inclusion TGLs = 1 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Interstit Cell | Hyperplasia | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301610

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| Blood Vessel | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------|----------------------------------|-------------------------------|----------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hemorrhage | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Cecum | | Polyarteritis Nodosa | Mild |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 2 - 17+18] | | |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Acute, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Spleen | | Pigment | Mild |
| Testis | Germinal Epith | Degeneration | Moderate |
| | | Polyarteritis Nodosa | Mild |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 571

DOSE: 2500 ppm males

DISP: Natural Death

HISTO: 1301611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--|------------|-----------------------|-----------------------|
| * Brain | | Necrosis | Marked |
| * Islets, Pancreatic | | Adenoma | Multiple |
| Note: Multiple small adenomas in B09I and B09II. | | | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Degeneration | Cystic, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Spleen | White Pulp | Atrophy | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Islets, Pancreatic Adenoma

CONTRIBUTORY CAUSE OF DEATH - Brain Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------|---|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Marked |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| | [Pheochromocytoma Benign TGLs = 1 - 17] | | |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301613

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Stomach, Forestomach
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Mammary Gland
- * Prostate
- * Stomach, Glandular
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Salivary Glands
- Testis
- * Bone Marrow
- * Harderian Gland
- * Intestine Large, Rectum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Seminal Vesicle
- * Thyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
- * Brain
- * Islets, Pancreatic
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2 - 6+7]
- * Nose
- * Pituitary Gland
- [Adenoma TGLs = 3 - 11]
- * Skin
- [Fibroma TGLs = 1 - 17]
- * Spleen
- * Thymus
- Alveolar Epith
- Epithelium
- Pars Distalis
- Subcut Tiss
- Hyperplasia
- Granular Cell Tumor Benign
- Adenoma
- Nephropathy
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Adenoma
- Fibroma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Focal, Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Moderate
- Moderate
- Mild
- Minimal
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 518

DOSE: 2500 ppm males

DISP: Moribund Sacrifice

HISTO: 1301614

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|-------------------------------|------------------------|
| * Eye | Retina | Degeneration | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1 - 17] | | |
| * Spleen | | Pigment | Mild |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 400

DOSE: 2500 ppm males

DISP: Moribund Sacrifice

HISTO: 1301615

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Glandular |
| Testis | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------|---------------|-------------------------------|------------------------|
| * Intestine Large, Colon | Lymphoid Tiss | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Pigment | Minimal |
| * Stomach, Forestomach | | Inflammation | Granulomatous, Mild |

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301616

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Mild
* Nose	Epithelium	Accumulation, Hyaline Droplet	Marked
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
Testis	Germinal Epith	Degeneration	Marked
	[Degeneration TGLs = 1 - 14]		
* Thymus		Atrophy	Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301617

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 1 - 6+7]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
Testis	Germinal Epith	Degeneration	Minimal
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 414

DOSE: 2500 ppm males

DISP: Moribund Sacrifice

HISTO: 1301618

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--|--|-------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| Blood Vessel | | Mineral | Minimal |
| Note: Gastric vessels are mineralized. | | | |
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Minimal |
| * Mammary Gland | | Hyperplasia | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Skin | Subcut Tiss | Schwannoma Malignant | |
| | [Schwannoma Malignant TGLs = 2 - 18] | | |
| * Spleen | White Pulp | Atrophy | Minimal |
| | [Extramedullary Hematopoiesis TGLs = 1 - 17] | Extramedullary Hematopoiesis | Marked |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301619

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---|--|---|---|
| * Adrenal Cortex | | Degeneration
Hypertrophy
Mineral | Cystic, Minimal
Focal, Minimal
Minimal |
| Blood Vessel | | | |
| Note: The aorta is mineralized (heart section). | | | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus
Eosinophilic Focus | |
| * Lung | | Infiltration Cellular
Inflammation | Histiocyte, Mild
Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Prostate | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Extramedullary Hematopoiesis
Pigment | Mild
Mild |
| Testis | Germinal Epith | Degeneration | Mild |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 629

DOSE: 2500 ppm males

DISP: Moribund Sacrifice

HISTO: 1301620

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| Blood Vessel | * Bone | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | Nerve Trigeminal | * Parathyroid Gland | Peripheral Nerve |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Glandular | Testis | * Thyroid Gland |
| * Trachea | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------|--|-------------------------------|------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Mild |
| | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Minimal |
| | | Leukemia Mononuclear | |
| | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Leukemia Mononuclear | |
| | | Necrosis | Mild |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1 - 17] | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2 - 18] | | |
| * Mammary Gland | | Hyperplasia | Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pancreas | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 629

DOSE: 2500 ppm males

DISP: Moribund Sacrifice

HISTO: 1301620

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Spinal Cord		Hemorrhage	Moderate
* Spleen		Hemorrhage	Marked
		Leukemia Mononuclear	
	[Hemorrhage TGLs = 4 - 19]		
	[Leukemia Mononuclear TGLs = 3 - 8]		
* Stomach, Forestomach		Erosion	Minimal
		Inflammation	Chronic Active, Minimal
* Thymus		Atrophy	Marked
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Infarct	Minimal
		Nephropathy	Chronicprogr, Moderate
	[Nephropathy TGLs = 4 - 8]		
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Granulomatous, Focal, Minimal
	[Infiltration Cellular TGLs = 5 - 6+7]		
Lymph Node	Renal	Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 6 - 20]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Marked
* Pancreas	Acinus	Adenoma	Multiple
	Acinus	Hyperplasia	Marked
		Polyarteritis Nodosa	Mild
	[Adenoma TGLs = 1,2 - 17+18]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin		Cyst Epithelial Inclusion	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301621

ORGAN AND ACCOUNTABLE SITE STATUS

	[Cyst Epithelial Inclusion	TGLs = 3 - 19]		
* Spleen			Extramedullary Hematopoiesis	Mild
			Pigment	Mild
Testis		Germinal Epith	Degeneration	Marked
			Mineral	Minimal
			Polyarteritis Nodosa	Mild
* Thymus			Atrophy	Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301622

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------|--------------|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hypercellularity | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | Renal Tubule | Cyst | |
| | | Infarct | Minimal |
| | | Nephropathy | Chronicprogr, Moderate |
| | | | |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301623

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------|------------|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Parathyroid Gland | | Hyperplasia | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 2500 ppm males

DISP: Terminal Sacrifice

HISTO: 1301624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------|--|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| | [Adenoma TGLs = 1 - 17] | | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Stomach, Glandular | | Mineral | Minimal |
| Testis | Germinal Epith | Degeneration | Moderate |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 616

DOSE: 2500 ppm males

DISP: Moribund Sacrifice

HISTO: 1301625

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| Blood Vessel | * Bone | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Trachea | |

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|-------------------------------|----------------------|-----------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Hypertrophy | Focal, Minimal |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Brain | | Hemorrhage | Mild |
| | | Leukemia Mononuclear | |
| Coagulating Gland | | Inflammation | Suppurative, Moderate |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | Papilla | Necrosis | Minimal |
| | | Nephropathy | Chronicprogr, Mild |
| | [Nephropathy TGLs = 2 - 18] | | |
| * Liver | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Hemorrhage | Marked |
| | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 616

DOSE: 2500 ppm males

DISP: Moribund Sacrifice

HISTO: 1301625

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLs = 1 - 17]

[Leukemia Mononuclear TGLs = 3 - 19]

* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Prostate		Inflammation	Suppurative, Marked
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder	Urothelium	Hyperplasia Inflammation	Mild Chronic Active, Moderate

PRIMARY CAUSE OF DEATH - Lymph Node Pancreatic Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Brain Leukemia Mononuclear

- Prostate Inflammation

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301626

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------------------|---------------|-------------------------------|--------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Islets, Pancreatic | | Adenoma | |
| [Adenoma TGLs = 1 - 17] | | | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| Peripheral Nerve | Trigeminal | Degeneration | Minimal |
| Note: In nasal section, level 3. | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| | | Inflammation | Acute, Mild |
| Testis | | Polyarteritis Nodosa | Minimal |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 102

TRT#: 5

SEX: Male

DAY ON TEST: 657

DOSE: 5000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301627

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

- * Testes

INSUFFICIENT TISSUE

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------|-------------------------------|-------------------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | Urothelium | Carcinoma | |
| | | Nephropathy | Chronicprogr, Minimal |
| | [Carcinoma TGLs = 1 - 17+18] | | |
| * Liver | Bile Duct | Eosinophilic Focus | |
| | Oval Cell | Hyperplasia | Minimal |
| | | Hyperplasia | Mild |
| * Lung | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pancreas | Acinus | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Prostate | | Inflammation | Chronic Active, Minimal |
| * Seminal Vesicle | | Inflammation | Chronic Active, Minimal |
| * Spleen | White Pulp | Atrophy | Marked |
| | | Extramedullary Hematopoiesis | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 102

TRT#: 5

SEX: Male

DAY ON TEST: 657

DOSE: 5000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301627

ORGAN AND ACCOUNTABLE SITE STATUS

Testis	Germinal Epith	Degeneration	Moderate
[Degeneration TGLs = 2 - 14]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Kidney Urothelium Carcinoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 103

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301628

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Eye	Cornea	Inflammation	Acute, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Infarct	Minimal
		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 104

TRT#: 5

SEX: Male

DAY ON TEST: 566

DOSE: 5000 ppm males

DISP: Natural Death

HISTO: 1301629

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|------------------------------|---------------------------------|------------------------------|------------------------------|
| * Adrenal Cortex | | Atrophy | Moderate |
| | | Hyperplasia | Focal, Mild |
| * Adrenal Medulla | | Pheochromocytoma Malignant | |
| [Pheochromocytoma Malignant | TGLs = 2 - 17] | | |
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Necrosis | Moderate |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Pheochromocytoma Malignant | Metastatic (Adrenal Medulla) |
| [Pheochromocytoma Malignant | TGLs = 3,4,5,6 - 6+7+18+19+20] | | |
| * Spleen | White Pulp | Atrophy | Marked |
| | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Germinal Epith | Degeneration | Moderate |
| [Degeneration | TGLs = 1 - 14] | | |

PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301630

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---|---------------|-------------------------------|-------------------------|
| Blood Vessel | | Aneurysm | Mild |
| Note: Mesenteric and prostatic arteries have aneurysms. | | | |
| [Aneurysm TGLs = 1 - 17] | | | |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Epididymis | | Polyarteritis Nodosa | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| | | Polyarteritis Nodosa | Moderate |
| * Kidney | | Nephropathy | Chronic progr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| Mesentery | | Polyarteritis Nodosa | Moderate |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| * Pancreas | | Polyarteritis Nodosa | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Prostate | | Polyarteritis Nodosa | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | | Polyarteritis Nodosa | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301631

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|-------------------------------|-------------------------------|-------------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pancreas | Acinus | Adenoma | Multiple |
| | Acinus | Hyperplasia | Marked |
| | [Hyperplasia TGLs = 1 - 17] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 107

TRT#: 5

SEX: Male

DAY ON TEST: 696

DOSE: 5000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301632

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Esophagus
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Preputial Gland
- * Skin
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Small, Duodenum
- * Lung
- * Pancreas
- * Prostate
- * Stomach, Forestomach
- * Brain
- * Harderian Gland
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Salivary Glands
- * Thyroid Gland
- * Epididymis
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Seminal Vesicle
- * Trachea

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
 - Hyperplasia
 - Pheochromocytoma Benign
 - Focal, Minimal
- Blood Vessel
 - Mineral
 - Mild
- Note: Cardiac arteries are mineralized.
- * Bone Marrow
 - Hypercellularity
 - Mild
- * Heart
 - Cardiomyopathy
 - Marked
- * Intestine Large, Cecum
 - Erosion
 - Moderate
 - Inflammation
 - Acute, Minimal
 - Nephropathy
 - Chronicprogr, Marked
- * Kidney
 - [Nephropathy TGLs = 1 - 17]
- * Liver
 - Bile Duct
 - Cyst
 - Fatty Change
 - Minimal
 - Hepatodiaphragmatic Nodule
 - Bile Duct
 - Hyperplasia
 - Minimal
 - [Fatty Change TGLs = 3 - 19]
 - [Hepatodiaphragmatic Nodule TGLs = 2 - 18]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 107

TRT#: 5

SEX: Male

DAY ON TEST: 696

DOSE: 5000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301632

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Inflammation	Acute, Minimal
* Spleen	White Pulp	Atrophy	Mild
		Pigment	Mild
* Stomach, Glandular		Mineral	Mild
Testis		Polyarteritis Nodosa	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH - Heart Cardiomyopathy

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 613

DOSE: 5000 ppm males

DISP: Natural Death

HISTO: 1301633

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Granulomatous, Focal, Minimal
Mesentery		Fibrosarcoma	Metastatic (Skeletal Muscle)
	[Fibrosarcoma TGLs = 2 - 18]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Moderate
		Inflammation	Acute, Minimal
	Squam Epithel	Metaplasia	Respiratory, Minimal
Skeletal Muscle		Sarcoma	
	Note: Fibrosarcoma arising in skeletal muscle.		
	[Sarcoma TGLs = 1 - 17]		
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Skeletal Muscle Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301634

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|--------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Prostate | Epithelium | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 110

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301635

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------|----------------|-------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Marked |
| * Heart | | Cardiomyopathy | Moderate |
| * Intestine Large, Colon | Lymphoid Tiss | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Prostate | Epithelium | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| * Stomach, Glandular | | Inflammation | Acute, Minimal |
| Testis | | Polyarteritis Nodosa | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 110

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301635

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 111

TRT#: 5

SEX: Male

DAY ON TEST: 270

DOSE: 5000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301636

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------|------------|-------------------------------|-----------------------|
| * Bone Marrow | | Hemorrhage | Minimal |
| | | Hypercellularity | Minimal |
| * Brain | | Necrosis | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Necrosis | Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| | | Foreign Body | |
| | | Inflammation | Suppurative, Minimal |
| * Spleen | White Pulp | Atrophy | Moderate |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH

- Brain Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 565

DOSE: 5000 ppm males

DISP: Natural Death

HISTO: 1301637

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| Blood Vessel | * Bone | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|----------------------------|-------------------------------|---------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hypercellularity | Mild |
| * Brain | | Necrosis | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| | | Mineral | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | Bile Duct | Dilation | Mild |
| | | Necrosis | Moderate |
| | [Dilation TGLs = 1 - 17] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | White Pulp | Atrophy | Moderate |
| | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| Testis | Germinal Epith | Degeneration | Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 565

DOSE: 5000 ppm males

DISP: Natural Death

HISTO: 1301637

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH - Brain Necrosis

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301638

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--|----------------|-------------------------------|------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Hemorrhage | Marked |
| | | Nephropathy | Chronicprogr, Moderate |
| [Hemorrhage TGLs = 1 - 17] | | | |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| [Infiltration Cellular TGLs = 3 - 6+7] | | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| | | Fungus | |
| | | Inflammation | Suppurative, Moderate |
| | Respirat Epith | Metaplasia | Squamous, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| Testis | Germinal Epith | Degeneration | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301638

ORGAN AND ACCOUNTABLE SITE STATUS

Polyarteritis Nodosa

Mild

Atrophy

Mild

Adenoma

* Thymus

* Thyroid Gland

C Cell

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301639

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------|--|-------------------------------|--------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Hypertrophy | Focal, Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 18] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301640

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------------|----------------|-------------------------------|--------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| Blood Vessel | | Mineral | Minimal |
| Note: The aorta is mineralized. | | | |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Cyst | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | Germinal Epith | Degeneration | Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301641

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLs = 1 - 17]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 2 - 6+7]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Minimal
* Pancreas	Acinus	Hyperplasia	Marked
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 695

DOSE: 5000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301642

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	Testis	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Kidney		Infarct	Minimal
		Nephropathy	Chronicprogr, Mild
* Nose	Epithelium	Accumulation, Hyaline Droplet	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1 - 17]			
* Prostate		Inflammation	Suppurative, Minimal
* Spleen	White Pulp	Atrophy	Minimal
		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301643

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Mammary Gland
- * Pancreas
- * Preputial Gland
- * Prostate
- * Skin
- * Stomach, Forestomach
- * Trachea
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Glandular
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Seminal Vesicle
- Testis

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Kidney Nephropathy Chronicprogr, Mild
- * Liver Clear Cell Focus
- * Lung Bile Duct Hyperplasia Minimal
- [Infiltration Cellular TGLs = 1 - 6+7] Infiltration Cellular Inflammation Histiocyte, Mild
- * Nose Epithelium Accumulation, Hyaline Droplet Granulomatous, Focal, Minimal
- * Spleen Foreign Body Extramedullary Hematopoiesis Minimal
- * Thymus Pigment Mild
- * Thyroid Gland C Cell Atrophy Moderate
- Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301644

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Prostate | | Inflammation | Chronic Active, Minimal |
| * Skin | | Cyst Epithelial Inclusion | |
| | [Cyst Epithelial Inclusion TGLs = 1- 18] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301645

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Chronicprogr, Marked
	[Nephropathy TGLs = 2,3 - 18+19]		
* Liver		Cholangiocarcinoma	
		Clear Cell Focus	
		Hyperplasia	Minimal
	Bile Duct		
	[Cholangiocarcinoma TGLs = 1 - 17]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Pancreas	Acinus	Hyperplasia	Mild
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Chronic Active, Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
Testis	Germinal Epith	Degeneration	Minimal
* Thymus		Atrophy	Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 571

DOSE: 5000 ppm males

DISP: Natural Death

HISTO: 1301646

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Glandular | Testis | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|------------------------|------------|-----------------------|-----------------------|
| * Adrenal Cortex | | Necrosis | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Spleen | White Pulp | Atrophy | Marked |
| | | Pigment | Mild |
| * Stomach, Forestomach | | Inflammation | Acute, Minimal |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301647

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------|--|-------------------------------|-------------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hypercellularity | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | Renal Tubule | Hyperplasia | Atypical, Minimal |
| | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301648

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Lens	Cataract	Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
[Adenoma TGLs = 1 - 17]			
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Mild
* Spleen	White Pulp	Atrophy	Minimal
		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
Testis	Germinal Epith	Degeneration	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301649

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------------|---------------|-------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| Blood Vessel | | Mineral | Minimal |
| Note: The aorta is mineralized. | | | |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301650

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------|--|-------------------------------|-------------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = TGL2-7 TGL3-6] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pancreas | Acinus | Adenoma | Multiple |
| | Acinus | Hyperplasia | Marked |
| | [Adenoma TGLs = 1 - 17] | | |
| | [Hyperplasia TGLs = 4 - 18] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301651

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | Testis | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------|-----------------------------------|-------------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Parasite Metazoan | |
| * Intestine Large, Rectum | | Nephropathy | Chronicprogr, Mild |
| * Kidney | | Clear Cell Focus | |
| * Liver | | Infiltration Cellular | Histiocyte, Minimal |
| * Lung | | Accumulation, Hyaline Droplet | Mild |
| * Nose | Epithelium | Keratoacanthoma | |
| * Skin | [Keratoacanthoma TGLs = 1 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Stomach, Glandular | | Mineral | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301652

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Thyroid Gland
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Seminal Vesicle
- * Trachea
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lung
- * Pancreas
- * Skin
- * Urinary Bladder
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
 - Blood Vessel
 - Hypertrophy
 - Inflammation
 - Mineral
 - Note: The pulmonary arteries are mineralized.
 - Note: A cardiac artery is inflamed.
- * Bone Marrow
 - Hypercellularity
- * Heart
 - Cardiomyopathy
- * Kidney
 - Nephropathy
- * Liver
 - Clear Cell Focus
- * Nose
 - Bile Duct
 - Hyperplasia
 - Epithelium
 - Accumulation, Hyaline Droplet
 - Pars Distalis
 - Hyperplasia
- * Pituitary Gland
 - Inflammation
- * Prostate
 - Inflammation
- * Salivary Glands
 - [Inflammation TGLs = 1 - 17]
- * Spleen
 - Extramedullary Hematopoiesis
 - Pigment
- * Stomach, Forestomach
 - Dysplasia

Note: TGL-3 = developmental abnormality including hyperplastic squamous epithelium and glandular epithelium with lymphoid tissue.

[Dysplasia TGLs = 3 - 19]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301652

ORGAN AND ACCOUNTABLE SITE STATUS

Testis

Germinal Epith

Degeneration

Moderate

Mineral

Minimal

* Thymus

Atrophy

Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301653

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--|----------------|-------------------------------|----------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Eye | Retina | Degeneration | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Lung | Mediastinum | Carcinoma | Metastatic (Thyroid Gland) |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| | | Inflammation | Acute, Minimal |
| | Respirat Epith | Metaplasia | Squamous, Minimal |
| * Parathyroid Gl | | | |
| Note: Parathyroid gland is ectopic in thymus. | | | |
| Peripheral Nerve | Ganglion | Vacuolation, Cytoplasmic | Minimal |
| Note: Vacuolization in a couple ganglion cells in the prostatic section. | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1 - 11] | | | |
| * Prostate | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | | Polyarteritis Nodosa | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301653

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Marked

* Thyroid Gland

C Cell

Carcinoma

C Cell

Hyperplasia

Mild

[Carcinoma TGLs = 2 - 11]

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 672

DOSE: 5000 ppm males

DISP: Natural Death

HISTO: 1301654

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Epididymis | * Esophagus | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mesenteric

AUTO PRECLUDES DIAG.

- * Intestine Small, Jejunum

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------|--|-----------------------|----------------------|
| * Bone Marrow | | Hemorrhage | Moderate |
| * Eye | Cornea | Inflammation | Acute, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | White Pulp | Atrophy | Marked |
| | | Pigment | Minimal |
| * Stomach, Glandular | | Mineral | Mild |
| Testis | | Polyarteritis Nodosa | Mild |
| * Thymus | | Atrophy | Marked |

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 713

DOSE: 5000 ppm males

DISP: Natural Death

HISTO: 1301655

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Bone Marrow		Hypercellularity	Marked
* Heart		Cardiomyopathy	Mild
* Intestine Small, Jejunum		Adenocarcinoma	
	[Adenocarcinoma TGLs = 1 - 17]		
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Infarct	Minimal
		Nephropathy	Chronicprogr, Moderate
* Liver		Necrosis	Moderate
* Lung		Inflammation	Chronic Active, Minimal
	[Inflammation TGLs = 2 - 6+7]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphocyte, Moderate
	[Hyperplasia TGLs = 3 - 9]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen	White Pulp	Atrophy	Mild
		Extramedullary Hematopoiesis	Moderate
Testis	Germinal Epith	Degeneration	Marked
		Mineral	Mild
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 713

DOSE: 5000 ppm males

DISP: Natural Death

HISTO: 1301655

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Intestine Small, Jejunum Adenocarcinoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 615

DOSE: 5000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301656

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Preputial Gland
- * Prostate
- * Skin
- * Stomach, Forestomach
- * Trachea
- * Urinary Bladder
- * Blood Vessel
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Liver
- * Pancreas
- * Salivary Glands
- * Stomach, Glandular
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Seminal Vesicle
- * Thyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Kidney Nephropathy Chronicprogr, Mild
- * Lung Infiltration Cellular Histiocyte, Mild
- * Nose Epithelium Accumulation, Hyaline Droplet Mild
- * Pituitary Gland Pars Distalis Adenoma
- [Adenoma TGLs = 4 - 11]
- * Spleen White Pulp Atrophy Moderate
- Pigment Minimal
- Degeneration Marked
- [Degeneration TGLs = 1 - 14]
- * Thymus Atrophy Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 699

DOSE: 5000 ppm males

DISP: Natural Death

HISTO: 1301657

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| Blood Vessel | * Bone | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------------------|-------------------------------|------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Brain | | Hemorrhage | Moderate |
| | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1 - 8] | | |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Brain Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301658

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------|-------------------------------|------------------------|
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301659

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------|-------------------------------|------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Moderate |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|------------------|------------|-------------------------------|--------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301661

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------------|----------------|-------------------------------|------------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Islets, Pancreatic | | Adenoma | |
| [Adenoma TGLs = 2 - 18] | | | |
| * Kidney | Renal Tubule | Carcinoma | |
| | | Nephropathy | Chronicprogr, Moderate |
| [Carcinoma TGLs = 3 - 19] | | | |
| [Nephropathy TGLs = 4 - 8+19] | | | |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| Mesentery | Fat | Necrosis | Minimal |
| [Necrosis TGLs = 1 - 17] | | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pancreas | Acinus | Hyperplasia | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Germinal Epith | Degeneration | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301661

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Polyarteritis Nodosa

Minimal

Atrophy

Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301662

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-----------------------------|----------------|------------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Cyst | |
| [Cyst TGLs = 1 - 17] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Acute, Minimal |
| * Pancreas | Acinus | Adenoma | Multiple |
| [Adenoma TGLs = 2,3 - 18] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Germinal Epith | Degeneration | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301663

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Marked
	[Nephropathy TGLs = 1 - 17+18]		
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Parathyroid Gland		Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
Testis	Germinal Epith	Degeneration	Minimal
		Polyarteritis Nodosa	Mild
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301664

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|-------------------------|-------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Skin | | Inflammation | Chronic Active, Marked |
| | | Ulcer | Moderate |
| | [Ulcer TGLs = 1 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 674

DOSE: 5000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|------------------|---|-------------------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Infarct | Minimal |
| | | Nephropathy | Chronicprogr, Mild |
| | [Nephropathy TGLs = 5 - 8] | | |
| * Liver | Hepatocyte | Cytoplasmic Alteration | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| | Lymph Node | Hemorrhage | Moderate |
| | | Infiltration Cellular | Histiocyte, Moderate |
| | Pancreatic | Infiltration Cellular | Histiocyte, Mild |
| | Mediastinal | Pigment | Mild |
| | Pancreatic | | |
| | Mediastinal | | |
| | Note: Pancreatic lymph node also present on slide 21. | | |
| | [Infiltration Cellular TGLs = 6 - 21] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Marked |
| | | Hemorrhage | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 674

DOSE: 5000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301665

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

[Extramedullary Hematopoiesis TGLs = 7 - 22]

[Hemorrhage TGLs = 1,2,3,4 - 17+18+19+20]

* Thymus

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301666

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Seminal Vesicle
- * Thyroid Gland
- Blood Vessel
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Forestomach
- * Trachea
- * Bone
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Stomach, Glandular
- * Urinary Bladder
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Salivary Glands
- Testis

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Brain
- * Heart
- * Kidney
- * Liver
- * Lung
- * Nose
- * Pancreas
- Hypertrophy
- Hypercellularity
- Infiltration Cellular
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Eosinophilic Focus
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Adenoma
- Hyperplasia
- Inflammation
- Focal, Minimal
- Mild
- Histiocyte, Minimal
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Granulomatous, Focal, Minimal
- Minimal
- Multiple
- Marked
- Chronic Active, Marked

Note: Additional adenoma(s) present on slide 09, although it is uncertain whether the pieces present in B20 may be portions of ones on B09.

Note: B20 pancreatic nodules called hyperplasia based upon borderline size. If part of nodules in B09, then pancreas has adenomas w/o hyperplasia.

[Adenoma TGLs = 2 - 18]

[Hyperplasia TGLs = 4 - 20]

[Inflammation TGLs = 3 - 19]

- * Pituitary Gland
- Pars Distalis
- Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301666

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 5 - 21]

* Prostate

Epithelium

Hyperplasia

Minimal

* Skin

Basal Cell Adenoma

Note: Abundant sebaceous differentiation.

[Basal Cell Adenoma TGLs = 1 - 17]

* Spleen

Extramedullary Hematopoiesis

Mild

* Thymus

Atrophy

Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301667

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 714

DOSE: 5000 ppm males

DISP: Natural Death

HISTO: 1301668

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---|------------|-------------------------------|-------------------------------|
| * Islets, Pancreatic
[Adenoma TGLs = 1 - 17] | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Spleen | White Pulp | Atrophy | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH

- Islets, Pancreatic Adenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301669

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|------------|-------------------------------|-------------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 721

DOSE: 5000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301670

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Esophagus
- * Intestine Large, Rectum
- * Salivary Glands
- Testis
- Blood Vessel
- * Eye
- * Pituitary Gland
- * Seminal Vesicle
- * Thyroid Gland
- * Bone
- * Harderian Gland
- * Preputial Gland
- * Skin
- * Trachea
- * Epididymis
- * Heart
- * Prostate
- Spinal Cord
- * Urinary Bladder

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Kidney
- [Nephropathy TGLs = 2 - 18]
- * Liver
- * Lung
- * Lymph Node, Mandibular
- [Lymphoma Malignant TGLs = 4 - 20]
- * Lymph Node, Mesenteric
- [Lymphoma Malignant TGLs = 3 - 19]
- Pheochromocytoma Benign
- Hypercellularity
- Lymphoma Malignant
- Necrosis
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Adenoma
- Lymphoma Malignant
- Nephropathy
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant

Mild

Minimal

Chronicprogr, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 721

DOSE: 5000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301670

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1 - 17]			
Nerve Trigeminal			
Note: Degeneration, mild, not currently available as term in TDMSE.			
* Nose	Epithelium	Accumulation, Hyaline Droplet	Minimal
		Inflammation	Acute, Minimal
* Pancreas		Lymphoma Malignant	
Peripheral Nerve	Axon, Sciatic	Degeneration	Minimal
	Axon, Tibial	Degeneration	Minimal
		Lymphoma Malignant	
Note: Peripheral nerves in spinal cord sections have lymphoma infiltrates, as does the trigeminal nerve in nasal sections.			
Skeletal Muscle		Lymphoma Malignant	
* Spleen		Extramedullary Hematopoiesis	Mild
		Lymphoma Malignant	
* Stomach, Forestomach		Lymphoma Malignant	
* Stomach, Glandular		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH - Intestine Small, Ileum Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301671

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------|---------------|-------------------------------|-----------------------|
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pancreas | Acinus | Atrophy | Mild |
| | | Cyst | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301672

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	Testis
* Thyroid Gland	* Trachea	* Urinary Bladder	

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Brain		Glioma Malignant	
	[Glioma Malignant TGLs = 1 - 3+18]		
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
		Necrosis	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose	Epithelium	Accumulation, Hyaline Droplet	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Chronic Active, Mild
	[Hyperplasia TGLs = 2 - 19]		
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 721

DOSE: 5000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301673

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Bone
- * Esophagus
- * Intestine Large, Rectum
- * Islets, Pancreatic
- Nerve Trigeminal
- * Preputial Gland
- * Skin
- * Trachea
- * Bone Marrow
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Pancreas
- * Prostate
- Spinal Cord
- * Urinary Bladder
- * Brain
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Glandular
- * Epididymis
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Pituitary Gland
- * Seminal Vesicle
- * Thyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
- * Adrenal Medulla
- Blood Vessel
- Note: Cardiac arteries are mineralized.
- * Eye
- * Heart
- * Kidney
- [Nephropathy TGLs = 1 - 17]
- * Liver
- * Lung
- * Nose
- Peripheral Nerve
- Skeletal Muscle
- * Spleen
- Thrombus
- Hyperplasia
- Pheochromocytoma Benign
- Mineral
- Inflammation
- Cardiomyopathy
- Mineral
- Nephropathy
- Hyperplasia
- Mixed Cell Focus
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Degeneration
- Degeneration
- Degeneration
- Atrophy
- Pigment
- Focal, Minimal
- Mild
- Acute, Minimal
- Moderate
- Mild
- Chronicprogr, Marked
- Minimal
- Histiocyte, Mild
- Moderate
- Mild
- Mild
- Minimal
- Mild
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 721

DOSE: 5000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301673

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Mild Chronic Active, Mild
Testis	Germinal Epith	Ulcer Degeneration	Mild Minimal
* Thymus		Polyarteritis Nodosa Atrophy	Minimal Marked

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301674

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--|------------------------------------|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Islets, Pancreatic | | Adenoma | |
| Note: Present in B17. | | | |
| * Kidney | Renal Tubule | Cyst | |
| | | Nephropathy | Chronicprogr, Moderate |
| | [Cyst TGLs = 2 - 18] | | |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pancreas | Acinus | Adenoma | |
| | Acinus | Hyperplasia | Marked |
| Note: More nodules are present in B19 than 17. | | | |
| | [Adenoma TGLs = 4 - 20] | | |
| | [Hyperplasia TGLs = 1,3 - 17+19] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301674

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Minimal

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 5000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301675

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------------|--------------|-------------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| Blood Vessel | | Inflammation | Chronic Active, Minimal |
| Note: The aorta is inflamed. | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Colon | | Diverticulum | |
| [Diverticulum TGLs = 1 - 18] | | | |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | Renal Tubule | Hyperplasia | Minimal |
| | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 151

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301676

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------------|-------------------------------|-------------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Skin | | Basal Cell Adenoma | |
| | [Basal Cell Adenoma TGLs = 1 - 18] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 152

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301677

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------|--|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | | Hepatocellular Carcinoma | |
| | [Hepatocellular Carcinoma TGLs = 1 - 17] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301678

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver	Bile Duct	Clear Cell Focus	
		Cyst	
	[Hepatocellular Adenoma TGLs = 1 - 17]	Hepatocellular Adenoma	
* Lung		Inflammation	Granulomatous, Focal, Minimal
* Nose	Epithelium	Accumulation, Hyaline Droplet	Moderate
* Parathyroid Gland		Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301679

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------|---|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Parathyroid Gland | | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Skin | | Cyst Epithelial Inclusion | |
| | [Cyst Epithelial Inclusion TGLs = 2 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301680

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------|----------------|-------------------------------|-----------------------|
| * Adrenal Cortex | | Thrombus | |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Cyst | |
| | Bile Duct | Hyperplasia | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pancreas | Acinus | Atrophy | Minimal |
| | Acinus | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Interstit Cell | Adenoma | |
| [Adenoma TGLs = 1 - 18] | | | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301681

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|---|-------------------------------|------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Marked |
| * Bone Marrow | | Hypercellularity | Minimal |
| * Kidney | [Nephropathy TGLs = 5 - 8] | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Cyst | |
| | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 4 - 12] | | |
| | [Hepatocellular Adenoma TGLs = 3-12] | | |
| | [Hepatocellular Carcinoma TGLs = 1 - 17] | | |
| * Lung | | Hemorrhage | Mild |
| | | Hepatocellular Carcinoma | Metastatic (Liver) |
| | [Hemorrhage TGLs = 6 - 6+7] | | |
| | [Hepatocellular Carcinoma TGLs = 2 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301681

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Hyperplasia

Mild

* Spleen

Extramedullary Hematopoiesis

Mild

Testis

Germinal Epith

Degeneration

Minimal

[Degeneration TGLs = 7 - 14]

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 157

TRT#: 7

SEX: Male

DAY ON TEST: 710

DOSE: 10000 ppm males

DISP: Natural Death

HISTO: 1301682

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	Testis	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Brain		Necrosis	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Infarct	Minimal
		Nephropathy	Chronicprogr, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Spleen	White Pulp	Atrophy	Moderate
		Pigment	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Brain Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 158

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------|--|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Bone Marrow | | Hemorrhage | Mild |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | [Hepatocellular Adenoma TGLs = 1 - 17] | Hepatocellular Adenoma | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| | | Inflammation | Acute, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 159

TRT#: 7

SEX: Male

DAY ON TEST: 636

DOSE: 10000 ppm males

DISP: Natural Death

HISTO: 1301684

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Epididymis
- * Esophagus
- * Eye
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Liver
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Nose
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thyroid Gland
- * Trachea
- * Urinary Bladder

AUTO PRECLUDES DIAG.

- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Bone Marrow
- * Heart
- * Kidney
- * Lung
- * Lymph Node, Mandibular
- * Spleen
- * Testis
- * Thymus
- Hemorrhage
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Atrophy
- White Pulp
- Atrophy
- Pigment
- Degeneration
- Atrophy
- Mild
- Mild
- Chronicprogr, Marked
- Histiocyte, Marked
- Moderate
- Marked
- Mild
- Moderate
- Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------|-------------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Basophilic Focus | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Prostate | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 161

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301686

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------|-----------------------------------|-------------------------------|------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Cecum | | Polyarteritis Nodosa | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Cyst | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Skin | | Keratoacanthoma | |
| | [Keratoacanthoma TGLs = 1 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | | Polyarteritis Nodosa | Mild |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 162

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|----------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| | | Inflammation | Acute, Minimal |
| * Pancreas | Acinus | Adenoma | Multiple |
| | [Adenoma TGLs = 1 - 17] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 163

TRT#: 7

SEX: Male

DAY ON TEST: 682

DOSE: 10000 ppm males

DISP: Natural Death

HISTO: 1301688

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Epididymis
- * Esophagus
- * Eye
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Liver
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Testis
- * Thyroid Gland
- * Trachea
- * Urinary Bladder

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Bone Marrow
- * Heart
- * Kidney
- * Lung
- * Nose
- * Pituitary Gland
- * Spleen
- * Thymus
- Epithelium
- Pars Distalis
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Hyperplasia
- Extramedullary Hematopoiesis
- Atrophy
- Moderate
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Minimal
- Granulomatous, Focal, Minimal
- Minimal
- Mild
- Mild
- Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 171

DOSE: 10000 ppm males

DISP: Natural Death

HISTO: 1301689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------|----------------------------------|-----------------------|---------------------|
| * Bone Marrow | | Hypercellularity | Moderate |
| * Intestine Large, Cecum | | Adenocarcinoma | |
| | [Adenocarcinoma TGLs = 1 - 17] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Spleen | White Pulp | Atrophy | Moderate |
| * Thymus | | Atrophy | Marked |

PRIMARY CAUSE OF DEATH - Intestine Large, Cecum Adenocarcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Skin
- * Trachea
- Blood Vessel
- * Epididymis
- * Heart
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Prostate
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Mammary Gland
- * Salivary Glands
- * Stomach, Glandular
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Parathyroid Gland
- * Seminal Vesicle
- * Thymus

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
- * Intestine Large, Rectum
- * Kidney
- * Liver
- * Lung
- * Nose
- * Pancreas
- * Pituitary Gland
- * Spleen
- Testis
- * Thyroid Gland
- Bile Duct
- [Hepatocellular Adenoma TGLs = 1 - 17]
- Epithelium
- Acinus
- Pars Distalis
- White Pulp
- Germinal Epith
- C Cell
- Follicle
- Hypertrophy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Hepatocellular Adenoma
- Hyperplasia
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Adenoma
- Adenoma
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Adenoma
- Hyperplasia
- Focal, Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Moderate
- Moderate
- Minimal
- Mild
- Mild
- Moderate
- Multiple
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 246

DOSE: 10000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301691

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Epididymis | * Esophagus | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Mammary Gland | Nerve Trigeminal | * Pancreas |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------|-----------------------|
| * Bone Marrow | | Lymphoma Malignant | |
| | | Necrosis | Marked |
| * Eye | | Lymphoma Malignant | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Hepatodiaphragmatic Nodule | |
| | | Lymphoma Malignant | |
| | [Hepatodiaphragmatic Nodule TGLs = 1 - 12] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Lymphoma Malignant | |
| Lymph Node | Pancreatic | Lymphoma Malignant | |
| | Mediastinal | Lymphoma Malignant | |
| | Lumbar | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 4 - 19] | | |
| | [Lymphoma Malignant TGLs = 3 - 18] | | |
| | [Lymphoma Malignant TGLs = 2 - 17] | | |
| * Lymph Node, Mandibular | | Lymphoma Malignant | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 246

DOSE: 10000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301691

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Epithelium	Accumulation, Hyaline Droplet	Minimal
Peripheral Nerve	Trigeminal	Lymphoma Malignant	
* Pituitary Gland		Lymphoma Malignant	
Spinal Cord	Dura	Lymphoma Malignant	
* Spleen		Extramedullary Hematopoiesis	Mild
		Lymphoma Malignant	
* Thymus		Atrophy	Mild
		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 167

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301692

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon	Lymphoid Tiss	Hyperplasia	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Infarct	Minimal
		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Granulomatous, Focal, Minimal
	[Infiltration Cellular TGLs = 1 - 6+7]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Minimal
* Prostate		Inflammation	Chronic Active, Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
Testis	Interstit Cell	Hyperplasia	Mild
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 168

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|-------------------------------|-------------------------------|-------------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Pigment | Minimal |
| * Lung | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| | [Hyperplasia TGLs = 1 - 11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Epididymis | * Esophagus | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---|--|-------------------------------|--------------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| Blood Vessel | | Inflammation | Chronic Active, Mild |
| Note: Epididymal, hepatic, prostatic, and testicular arteries are inflamed. | | | |
| * Bone Marrow | | Hemorrhage | Minimal |
| * Brain | | Granular Cell Tumor Malignant | |
| | | Meningioma Malignant | |
| | [Granular Cell Tumor Malignant TGLs = 4 - 4] | | |
| | [Meningioma Malignant TGLs = 2 - 11] | | |
| * Eye | | Meningioma Malignant | Metastatic (Brain) |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 1 - 8] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| | Pars Distalis | Meningioma Malignant | Metastatic (Brain) |
| * Spleen | | Pigment | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | [Inflammation TGLs = 3 - 9] | | |
| * Stomach, Glandular | | Inflammation | Chronic Active, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301694

ORGAN AND ACCOUNTABLE SITE STATUS

Testis
* Thymus

Germinal Epith

Degeneration
Atrophy

Mild
Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 170

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301695

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Epididymis
- * Esophagus
- * Eye
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Preputial Gland
- * Salivary Glands
- * Seminal Vesicle
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thyroid Gland
- * Trachea
- * Urinary Bladder

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Bone Marrow Hemorrhage Mild
- * Heart Cardiomyopathy Minimal
- * Kidney Nephropathy Chronicprogr, Marked
- [Nephropathy TGLs = 1 - 18]
- * Liver Clear Cell Focus
- Hepatocyte Cytoplasmic Alteration Moderate
- Hepatocyte Pigment Minimal
- * Lung Infiltration Cellular Histiocyte, Minimal
- * Nose Respirat Epith Hyperplasia Minimal
- Inflammation Acute, Minimal
- * Parathyroid Gland Hyperplasia Minimal
- * Pituitary Gland Pars Distalis Adenoma
- * Prostate Inflammation Chronic Active, Minimal
- * Spleen Extramedullary Hematopoiesis Mild
- Pigment Mild
- Degeneration Moderate
- Polyarteritis Nodosa Mild
- [Degeneration TGLs = 2 - 14]
- * Thymus Atrophy Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 171

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Blood Vessel | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------|--|-------------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Harderian Gland | | Hyperplasia | Minimal |
| * Heart | | Inflammation | Chronic Active, Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pancreas | Acinus | Adenoma | |
| | Acinus | Hyperplasia | Marked |
| | [Hyperplasia TGLs = 2 - 17] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Prostate | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 171

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301696

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 725

DOSE: 10000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|--|-----------------------|-------------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | Pelvis | Dilation | Moderate |
| | Pelvis | Inflammation | Suppurative, Marked |
| | | Nephropathy | Chronicprogr, Marked |
| | [Dilation TGLs = 3 - 8+19] | | |
| | [Nephropathy TGLs = 4 - 8+19] | | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Pancreas | Acinus | Adenoma | |
| | [Adenoma TGLs = 6 - 21] | | |
| * Prostate | | Inflammation | Chronic Active, Mild |
| * Seminal Vesicle | | Inflammation | Chronic Active, Mild |
| | | Neural Crest Tumor | |
| | [Neural Crest Tumor TGLs = 1 - 17] | | |
| Skeletal Muscle | | Neural Crest Tumor | Metastatic (Seminal Vesicle) |
| | Note: Tumor is more likely invasive than metastatic, arising from the seminal vesicle. | | |
| | [Neural Crest Tumor TGLs = 5 - 20] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 725

DOSE: 10000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301697

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Extramedullary Hematopoiesis	Moderate
Testis		Polyarteritis Nodosa	Minimal
* Thymus		Atrophy	Moderate
		Polyarteritis Nodosa	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Ureter		Degeneration	Marked
Note: Bilateral dilation, marked, not yet available in TDMSE.			
[Degeneration TGLs = 2 - 18]			
* Urinary Bladder		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH - Seminal Vesicle Neural Crest Tumor

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 173

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301698

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Epididymis
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Nose
- * Seminal Vesicle
- * Thyroid Gland
- * Bone
- * Esophagus
- * Intestine Large, Rectum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Stomach, Forestomach
- * Trachea
- * Bone Marrow
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Prostate
- * Stomach, Glandular
- * Urinary Bladder
- * Brain
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Mammary Gland
- * Salivary Glands
- Testis

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
 - [Pheochromocytoma Benign TGLs = 2 - 17]
 - Blood Vessel
 - Note: A carotid artery is inflamed.
 - Note: The aorta is mineralized.
- * Eye
- * Heart
- * Islets, Pancreatic
- * Kidney
- * Liver
- * Lung
 - Alveolar Epith
 - [Infiltration Cellular TGLs = 4 - 6+7]
- * Pancreas
 - Acinus
 - Acinus
 - [Adenoma TGLs = 3 - 19]
- * Parathyroid Gland
- * Pituitary Gland
- * Skin

- Pheochromocytoma Benign
- Inflammation
- Mineral
- Degeneration
- Cardiomyopathy
- Adenoma
- Nephropathy
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Adenoma
- Hyperplasia
- Hyperplasia
- Hyperplasia
- Hyperplasia
- Fibroma
- Chronic Active, Minimal
- Minimal
- Minimal
- Minimal
- Chronicprogr, Moderate
- Mild
- Histiocyte, Mild
- Multiple
- Moderate
- Minimal
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 173

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301698

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLs = 1 - 18]

* Spleen

Extramedullary Hematopoiesis

Mild

Pigment

Minimal

* Thymus

Atrophy

Marked

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 174

TRT#: 7

SEX: Male

DAY ON TEST: 691

DOSE: 10000 ppm males

DISP: Natural Death

HISTO: 1301699

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Seminal Vesicle
- Testis
- Blood Vessel
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Skin
- * Trachea
- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Prostate
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone Marrow
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Salivary Glands
- * Stomach, Glandular

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
 - Degeneration
 - Hyperplasia
 - Hypertrophy
 - Cardiomyopathy
 - Nephropathy
 - Hepatocellular Carcinoma
 - Hyperplasia
 - Cystic, Minimal
 - Focal, Minimal
 - Focal, Minimal
 - Moderate
 - Chronicprogr, Moderate
- * Heart
- * Kidney
- * Liver
 - Bile Duct
 - [Hepatocellular Carcinoma TGLs = 1 - 17]
 - Hyperplasia
 - Minimal
- * Lung
 - Infiltration Cellular
 - Inflammation
 - Histiocyte, Moderate
 - Granulomatous, Focal, Minimal
- * Nose
 - Epithelium
 - Accumulation, Hyaline Droplet
 - Minimal
- * Pituitary Gland
 - Pars Distalis
 - Adenoma
- [Adenoma TGLs = 2 - 18]
- * Spleen
 - Extramedullary Hematopoiesis
 - Pigment
 - Mild
 - Minimal
- * Thymus
 - Atrophy
 - Moderate
- * Thyroid Gland
 - C Cell
 - Hyperplasia
 - Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 597

DOSE: 10000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301700

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Mammary Gland
- * Pancreas
- * Prostate
- * Salivary Glands
- * Stomach, Glandular
- * Thymus
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Seminal Vesicle
- * Thyroid Gland
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Stomach, Forestomach
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Kidney Nephropathy Chronicprogr, Mild
- * Liver Clear Cell Focus
- * Lung Infiltration Cellular TGLs = 2 - 6+7 Histiocyte, Moderate
- * Nose Epithelium Accumulation, Hyaline Droplet Mild
- * Pituitary Gland Pars Distalis Hyperplasia Minimal
- * Skin Subcut Tiss Fibrosarcoma
- * Spleen [Fibrosarcoma TGLs = 1 - 17] Extramedullary Hematopoiesis Mild
- Testis Interstit Cell Pigment Mild
- Hyperplasia Mild

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301701

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|------------------|--|------------------------------|-------------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | Interstit Cell | Adenoma | |
| * Thymus | | Atrophy | Mild |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 177

TRT#: 7

SEX: Male

DAY ON TEST: 614

DOSE: 10000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301702

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|------------------------|---------------------------|-------------------------------|----------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Fatty Change | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1 - 17] | | |
| * Spleen | | Pigment | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Mild |
| | | Ulcer | Mild |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301703

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--|------------|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| | | Metaplasia | Osseous, Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatocellular Adenoma | |
| | Bile Duct | Hyperplasia | Minimal |
| Note: TGL-1 = also present on B12. | | | |
| [Hepatocellular Adenoma TGLs = 1 - 17] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| [Infiltration Cellular TGLs = 2 - 6+7] | | | |
| * Mammary Gland | | Hyperplasia | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pancreas | Acinus | Hyperplasia | Moderate |
| [Hyperplasia TGLs = 3 - 18] | | | |
| * Prostate | | Inflammation | Chronic Active, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301703

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Extramedullary Hematopoiesis

Mild

Pigment

Mild

* Thymus

Atrophy

Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301704

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Epididymis
- * Esophagus
- * Eye
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Trachea
- * Urinary Bladder

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Interstitial Cell | Adenoma | |
| | Germinal Epith | Degeneration | Moderate |
| | [Adenoma TGLs = 1 - 14] | | |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 180

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | Testis | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------|---------------|-------------------------------|--------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Stomach, Glandular | | Mineral | Mild |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 485

DOSE: 10000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------|---------------------------|-------------------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1 - 11] | | |
| * Prostate | | Inflammation | Chronic Active, Minimal |
| * Spleen | White Pulp | Atrophy | Minimal |
| | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Germinal Epith | Degeneration | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|------------|-------------------------------|------------------------|
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Seminal Vesicle | | Polyarteritis Nodosa | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301708

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hemorrhage | Minimal |
| | | Hypercellularity | Mild |
| * Heart | | Schwannoma Malignant | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2 - 17] | | |
| * Spleen | White Pulp | Atrophy | Mild |
| | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301709

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Prostate
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Glandular
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pituitary Gland
- * Seminal Vesicle
- * Thyroid Gland
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Skin
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Nose
- * Pancreas
- * Spleen
- Testis
- * Thymus
- Bile Duct
- [Infiltration Cellular TGLs = 3 - 6+7]
- [Adenoma TGLs = 1,2 - 17]
- Degeneration
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Hyperplasia
- Accumulation, Hyaline Droplet
- Adenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Atrophy
- Cystic, Minimal
- Minimal
- Minimal
- Chronicprogr, Moderate
- Minimal
- Histiocyte, Mild
- Granulomatous, Focal, Minimal
- Minimal
- Marked
- Multiple
- Marked
- Mild
- Minimal
- Minimal
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 713

DOSE: 10000 ppm males

DISP: Natural Death

HISTO: 1301710

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone
- * Brain
- * Epididymis
- * Esophagus
- * Eye
- * Harderian Gland
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Islets, Pancreatic
- * Liver
- * Lymph Node, Mandibular
- * Mammary Gland
- * Nose
- * Pancreas
- * Parathyroid Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thyroid Gland
- * Trachea
- * Urinary Bladder

AUTO PRECLUDES DIAG.

- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- Blood Vessel
- Mineral
- Minimal
- Note: The aorta is mineralized.
- * Bone Marrow
- Hemorrhage
- Marked
- * Heart
- Cardiomyopathy
- Mild
- * Kidney
- Nephropathy
- Chronicprogr, Marked
- * Lung
- Inflammation
- Chronic Active, Minimal
- * Pituitary Gland
- Pars Distalis
- Hyperplasia
- Marked
- * Spleen
- White Pulp
- Atrophy
- Marked
- Testis
- Germinal Epith
- Pigment
- Mild
- Degeneration
- Marked
- Polyarteritis Nodosa
- Minimal
- [Degeneration TGLs = 1 - 14]
- * Thymus
- Atrophy
- Moderate

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---|------------|-------------------------------|------------------------|
| * Bone Marrow | | Hypercellularity | Minimal |
| * Brain | | Gliosis | Moderate |
| Note: Proliferation of glial cells (type uncertain) unilaterally in subcortical white matter of level 3 in B03 and crossing midline of corpus callosum. | | | |
| Note: No evidence of trauma to incite such a proliferative response. | | | |
| * Epididymis | | Polyarteritis Nodosa | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301712

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Mammary Gland
- * Salivary Glands
- * Stomach, Glandular
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Seminal Vesicle
- * Thyroid Gland
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pituitary Gland
- * Skin
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
 - * Bone Marrow
 - * Kidney
 - * Liver
 - * Lung
 - * Nose
 - * Pancreas
 - Hypertrophy
 - Hypercellularity
 - Nephropathy
 - Clear Cell Focus
 - Eosinophilic Focus
 - Bile Duct
 - Hepatocyte
 - Hyperplasia
 - Inflammation
 - Pigment
 - Infiltration Cellular
 - Inflammation
 - Hyperplasia
 - Inflammation
 - Accumulation, Hyaline Droplet
 - Adenoma
 - Hyperplasia
 - Focal, Minimal
 - Mild
 - Chronicprogr, Moderate
 - Minimal
 - Focal, Minimal
 - Minimal
 - Histiocyte, Mild
 - Granulomatous, Focal, Minimal
 - Plasma Cell, Moderate
 - Suppurative, Mild
 - Moderate
 - Moderate
- [Infiltration Cellular TGLs = 4 - 6+7]
- [Hyperplasia TGLs = 5 - 19]
- [Adenoma TGLs = 3 - 18]
- [Hyperplasia TGLs = 2 - 17]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301712

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic Active, Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
Testis	Germinal Epith	Degeneration	Minimal
	[Degeneration TGLs = 1 - 14]		
* Thymus		Atrophy	Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301713

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------|------------|-------------------------------|------------------------|
| * Adrenal Medulla | Bilateral | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Mild |
| | Atrium | Thrombus | |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Inflammation | Chronic Active, Marked |
| * Mammary Gland | | Hyperplasia | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| | | Inflammation | Acute, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | | Polyarteritis Nodosa | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 556

DOSE: 10000 ppm males

DISP: Natural Death

HISTO: 1301714

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Brain	Cranial Nerve	Schwannoma Malignant	
Note: Interpreted as arising in trigeminal nerve, however, that organ does not have any morphology choices, so had to diagnose primary under "Brain".			
[Schwannoma Malignant TGLs = 1 - 17]			
* Harderian Gland		Schwannoma Malignant	Metastatic (Nerve Trigeminal)
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Adenocarcinoma	
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Nerve Trigeminal			
Note: No diagnoses yet available in TDMSE, however, Schwannoma listed as in brain likely arose in trigeminal nerve. Best appearance in Harderian gland.			
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Spleen	White Pulp	Atrophy	Mild
		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- Brain Cranial Nerve Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 190

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301715

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------|--|-------------------------------|-------------------------------|
| * Heart | | Polyarteritis Nodosa | Mild |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 4 - 8] | | |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Cyst | |
| | | Eosinophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | [Cyst TGLs = 2 - 19] | | |
| | [Hepatodiaphragmatic Nodule TGLs = 1 - 18] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 3 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Stomach, Glandular | | Mineral | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 190

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301715

ORGAN AND ACCOUNTABLE SITE STATUS

Testis
* Thymus

Polyarteritis Nodosa
Atrophy

Mild
Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

Blood Vessel

Note: Prostatic and testicular arteries are inflamed.

- | | | | |
|---------------------------|------------|-------------------------------|-------------------------------|
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Prostate | | Polyarteritis Nodosa | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | | Polyarteritis Nodosa | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 277

DOSE: 10000 ppm males

DISP: Natural Death

HISTO: 1301717

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------|------------|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Spleen | White Pulp | Atrophy | Moderate |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301718

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------------|----------------|-------------------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| Testis | Germinal Epith | Degeneration | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---------------------|----------------|---------------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Polyarteritis Nodosa | Moderate |
| * Kidney | Renal Tubule | Cyst | |
| | | Nephropathy | Chronicprogr, Marked |
| | | Polyarteritis Nodosa | Moderate |
| | | [Cyst TGLs = 1,2 - 17] | |
| | | [Nephropathy TGLs = 3 - 8+17] | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Parathyroid Gland | | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Germinal Epith | Degeneration | Minimal |
| | | Polyarteritis Nodosa | Moderate |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301719

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Polyarteritis Nodosa

Moderate

Hyperplasia

Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301720

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------|--------------------------------|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Alveolar/Bronchiolar Adenoma | | |
| * Nose | TGLs = 1 - 17] | | |
| | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|------------------|--------------------------------|-------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| | Valve | Fibrosis | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 17] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301722

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Blood Vessel | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|--------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Malignant | |
| | [Pheochromocytoma Malignant TGLs = 1 - 17] | | |
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| | | Inflammation | Acute, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | | Polyarteritis Nodosa | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone Marrow
- * Brain
- * Epididymis
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Stomach, Forestomach
- * Stomach, Glandular
- * Testis
- * Trachea
- * Urinary Bladder
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Mammary Gland
- * Preputial Gland
- * Skin
- * Thyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Islets, Pancreatic
- * Kidney
- * Liver
- * Lung
- * Nose
- * Spleen
- * Thymus
- Adenoma
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Chronicprogr, Mild
- Histiocyte, Minimal
- Marked
- Mild
- Minimal
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301724

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|------------|-------------------------------|-------------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301725

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Small, Ileum
- * Mammary Gland
- * Prostate
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Pancreas
- * Salivary Glands
- * Stomach, Glandular
- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Seminal Vesicle
- * Thyroid Gland
- * Bone Marrow
- * Eye
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Skin
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
 - Hyperplasia
 - Pheochromocytoma Benign
- * Heart
 - Cardiomyopathy
- * Intestine Large, Rectum
 - Parasite Metazoan
- * Islets, Pancreatic
 - Adenoma
- * Kidney
 - Nephropathy
- * Liver
 - Clear Cell Focus
 - Cyst
 - Eosinophilic Focus
 - Infiltration Cellular
- Bile Duct
 - Accumulation, Hyaline Droplet
- * Lung
 - [Infiltration Cellular TGLs = 2 - 6+7]
 - Histiocyte, Mild
- * Nose
 - Epithelium
- * Pituitary Gland
 - Pars Distalis
 - Hyperplasia
- * Spleen
 - Extramedullary Hematopoiesis
 - Pigment
- Testis
 - Germinal Epith
 - Degeneration
 - Mineral
- [Degeneration TGLs = 1 - 14]
 - Atrophy
- * Thymus
 - Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 201

TRT#: 9

SEX: Male

DAY ON TEST: 597

DOSE: 20000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| | Respirat Epith | Hyperplasia | Minimal |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLs = 1 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Hemorrhage | Mild |
| | | Pigment | Minimal |
| | [Hemorrhage TGLs = 2 - 18] | | |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 202

TRT#: 9

SEX: Male

DAY ON TEST: 686

DOSE: 20000 ppm males

DISP: Natural Death

HISTO: 1301727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------|------------------------------|-------------------------------|
| * Brain | | Gliosis | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | | Adenoma | |
| | | Inflammation | Chronic Active, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

PRIMARY CAUSE OF DEATH

- Nose Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 203

TRT#: 9

SEX: Male

DAY ON TEST: 501

DOSE: 20000 ppm males

DISP: Natural Death

HISTO: 1301728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Esophagus | * Eye |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-----------------------------|--|-------------------------------|-------------------------------|
| * Epididymis | | Polyarteritis Nodosa | Moderate |
| * Harderian Gland | | Polyarteritis Nodosa | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Polyarteritis Nodosa | Moderate |
| * Intestine Small, Duodenum | | Polyarteritis Nodosa | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| | | Inflammation | Acute, Minimal |
| * Prostate | | Polyarteritis Nodosa | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | | Polyarteritis Nodosa | Moderate |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 203

TRT#: 9

SEX: Male

DAY ON TEST: 501

DOSE: 20000 ppm males

DISP: Natural Death

HISTO: 1301728

ORGAN AND ACCOUNTABLE SITE STATUS

Polyarteritis Nodosa

Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 204

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone Marrow
- * Brain
- * Epididymis
- * Esophagus
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Skin
- * Stomach, Forestomach
- * Thyroid Gland
- * Trachea
- * Urinary Bladder

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Eye Retina Degeneration Minimal
- * Heart Endocardium Cardiomyopathy Minimal
- Hyperplasia Mild
- * Intestine Large, Rectum Parasite Metazoan
- * Kidney Nephropathy Chronicprogr, Minimal
- * Liver Clear Cell Focus
- Bile Duct Cyst
- Bile Duct Hyperplasia Minimal
- [Cyst TGLs = 1 - 12]
- * Lung Infiltration Cellular Histiocyte, Mild
- [Infiltration Cellular TGLs = 2 - 6+7]
- * Nose Epithelium Accumulation, Hyaline Droplet Mild
- Peripheral Nerve Ganglion Vacuolation, Cytoplasmic Minimal
- Note: Prostatic ganglion involved.
- * Spleen Extramedullary Hematopoiesis Mild
- Pigment Minimal
- * Stomach, Glandular Mineral Minimal
- Testis Interstitial Cell Hyperplasia Mild
- * Thymus Atrophy Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 205

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301730

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Prostate
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Mammary Gland
- * Salivary Glands
- * Stomach, Glandular
- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Seminal Vesicle
- * Thyroid Gland
- * Bone Marrow
- * Eye
- * Intestine Large, Rectum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Skin
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
 - * Heart
 - Note: Infiltrate in portion of auricle beside aortic section.
 - * Islets, Pancreatic
 - * Kidney
 - * Liver
 - Hepatocyte
 - Bile Duct
 - * Lung
 - [Infiltration Cellular TGLs = 1 - 6+7]
 - * Nose
 - Epithelium
 - * Pancreas
 - Acinus
 - Acinus
 - [Adenoma TGLs = 2 - 17]
 - * Pituitary Gland
 - Pars Distalis
- Hypertrophy
 - Cardiomyopathy
 - Hyperplasia
 - Nephropathy
 - Clear Cell Focus
 - Cytoplasmic Alteration
 - Degeneration
 - Hyperplasia
 - Pigment
 - Infiltration Cellular
 - Inflammation
 - Accumulation, Hyaline Droplet
 - Inflammation
 - Adenoma
 - Hyperplasia
 - Hyperplasia
- Focal, Minimal
 - Minimal
 - Minimal
 - Chronicprogr, Minimal
 - Minimal
 - Cystic, Minimal
 - Minimal
 - Mild
 - Histiocyte, Moderate
 - Granulomatous, Focal, Minimal
 - Mild
 - Acute, Minimal
 - Moderate
 - Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 205

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301730

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
Testis	Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 206

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301731

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | Testis | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---|------------------------------------|-------------------------------|-------------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| Blood Vessel | | Mineral | Minimal |
| Note: Gastric arteries are mineralized. | | | |
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| | [Mixed Cell Focus TGLs = 2 - 18] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Salivary Glands | | Inflammation | Suppurative, Marked |
| | [Inflammation TGLs = 1 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Stomach, Glandular | | Mineral | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 206

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301731

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 207

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301732

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	Testis
* Trachea	* Urinary Bladder		

PRESENT BUT NOT EXAMINED

* Testes

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Eosinophilic Focus	
	[Eosinophilic Focus TGLs = 2 - 18]	Hyperplasia	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Granulomatous, Focal, Minimal
* Nose	Epithelium	Accumulation, Hyaline Droplet	Moderate
* Pancreas	Acinus	Adenoma	
	[Adenoma TGLs = 3 - 19]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin		Cyst Epithelial Inclusion	
	[Cyst Epithelial Inclusion TGLs = 1 - 17]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 208

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301733

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---|---------------------------|-------------------------------|-------------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| Blood Vessel | | Mineral | Minimal |
| Note: Renal arteries are mineralized. | | | |
| * Bone Marrow | | Hypercellularity | Minimal |
| * Heart | Ventricle | Dilation | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| Skeletal Muscle | | Inflammation | Chronic Active, Moderate |
| | | Sarcoma | |
| Note: Sarcoma is low-grade and may have arisen from chronic inflammation. Probable fibrosarcoma (not available term for muscle in TDMSE). | | | |
| | [Sarcoma TGLs = 1 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 2 - 18] | | |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 209

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301734

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Pigment | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | | Adenoma | Squamous |
| | Note: Squamous cell papilloma. | | |
| * Prostate | Epithelium | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 210

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301735

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Parathyroid Gland
- * Seminal Vesicle
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Pituitary Gland
- * Stomach, Glandular
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Lymph Node, Mandibular
- * Preputial Gland
- Testis
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Mammary Gland
- * Salivary Glands
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Intestine Small, Jejunum
- * Kidney
- * Liver
- Adenocarcinoma
- Hypertrophy
- Hypercellularity
- Epicardium
- Pericardium
- Adenocarcinoma
- Hyperplasia
- Adenocarcinoma
- Nephropathy
- Adenocarcinoma
- Clear Cell Focus
- Hepatocyte
- Bile Duct
- Metastatic (Intestine Small, Jejunum)
- Focal, Minimal
- Moderate
- Metastatic (Intestine Small, Jejunum)
- Moderate
- Chronicprogr, Mild
- Metastatic (Intestine Small, Jejunum)
- Marked
- Minimal
- Minimal
- Minimal
- Mild
- Thrombus

Note: A major hepatic vessel is thrombosed.

Note: Large discrete spherical eosinophilic intracytoplasmic inclusions are present in hepatocytes in the mixed cell focus.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 210

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301735

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenocarcinoma TGLs = 5 - 18]

[Mixed Cell Focus TGLs = 4 - 17]

[Regeneration TGLs = 3 - 12]

[Thrombus TGLs = 6 - 19]

* Lung	Alveolar Epith	Adenocarcinoma Hyperplasia Infiltration Cellular Inflammation	Metastatic (Intestine Small, Jejunum) Moderate Histiocyte, Mild Granulomatous, Focal, Minimal
	[Adenocarcinoma TGLs = 11 - 24]		
Lymph Node	Mediastinal	Adenocarcinoma	Metastatic (Intestine Small, Jejunum)
	[Adenocarcinoma TGLs = 9 - 22]		
* Lymph Node, Mesenteric		Adenocarcinoma	Metastatic (Intestine Small, Jejunum)
	[Adenocarcinoma TGLs = 13 - 26]		
* Nose	Epithelium Respirat Epith	Accumulation, Hyaline Droplet Hyperplasia Inflammation	Mild Minimal Acute, Minimal
* Pancreas		Adenocarcinoma	Metastatic (Intestine Small, Jejunum)
	[Adenocarcinoma TGLs = 10 - 23]		
* Prostate		Inflammation	Chronic Active, Minimal
Skeletal Muscle		Adenocarcinoma	Metastatic (Intestine Small, Jejunum)
	[Adenocarcinoma TGLs = 7 - 20]		
* Skin	Epithelium	Hyperplasia	Mild
	[Hyperplasia TGLs = 8 - 21]		
* Spleen	Capsule	Adenocarcinoma Extramedullary Hematopoiesis	Metastatic (Intestine Small, Jejunum) Mild
* Stomach, Forestomach		Adenocarcinoma	Metastatic (Intestine Small, Jejunum)
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 211

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301736

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Prostate
- * Salivary Glands
- * Stomach, Forestomach
- * Stomach, Glandular
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Lung
- * Parathyroid Gland
- * Seminal Vesicle
- Testis
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Skin
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Kidney
- * Liver
- Bile Duct
- [Eosinophilic Focus TGLs = 2 - 18]
- [Hepatocellular Carcinoma TGLs = 1 - 17]
- * Nose
- * Pancreas
- Epithelium
- Duct
- Acinus
- Note: Degeneration in this case = dilation of duct.
- [Hyperplasia TGLs = 3 - 19]
- * Pituitary Gland
- [Adenoma TGLs = 4 - 20]
- * Spleen
- * Thymus
- * Thyroid Gland
- C Cell
- Nephropathy
- Clear Cell Focus
- Eosinophilic Focus
- Hepatocellular Carcinoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Degeneration
- Hyperplasia
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Chronicprogr, Minimal
- Minimal
- Mild
- Mild
- Mild
- Mild
- Minimal
- Mild
- Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 212

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301737

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------------|-------------------------------|--------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Hyperplasia | Minimal |
| | | Lipoma | |
| | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| | [Mixed Cell Focus TGLs = 1 - 18] | | |
| * Mammary Gland | | Hyperplasia | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Skin | Pinna | Neural Crest Tumor | |
| | [Neural Crest Tumor TGLs = 2 - 19] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 213

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301738

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Mammary Gland
- * Salivary Glands
- Testis
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Parathyroid Gland
- * Seminal Vesicle
- * Trachea
- * Bone
- * Eye
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Stomach, Forestomach
- * Urinary Bladder
- * Brain
- * Harderian Gland
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Prostate
- * Stomach, Glandular

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
- * Bone Marrow
- * Heart
- * Intestine Large, Rectum
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2 - 6+7]
- * Nose
- * Pancreas
- * Pituitary Gland
- * Skin
- [Fibroma TGLs = 1 - 18]
- * Spleen
- * Thymus
- * Thyroid Gland
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Hyperplasia
- Adenoma
- Fibroma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Focal, Minimal
- Mild
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Minimal
- Mild
- Moderate
- Moderate
- Minimal
- Moderate
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 214

TRT#: 9

SEX: Male

DAY ON TEST: 657

DOSE: 20000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301739

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Preputial Gland
- * Skin
- * Trachea
- Blood Vessel
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Prostate
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Glandular
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Seminal Vesicle
- * Thyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
 - * Bone Marrow
 - * Brain
 - [Hemorrhage TGLs = 6 - 4+5]
 - * Heart
 - * Kidney
 - * Liver
 - * Lung
 - [Infiltration Cellular TGLs = 4 - 6+7]
 - * Nose
 - [Epithelium]
 - Skeletal Muscle
 - [Leukemia Mononuclear TGLs = 5 - 19]
 - * Spleen
 - [Hemorrhage TGLs = 2,3 - 17+18]
 - [Leukemia Mononuclear TGLs = 1 - 17+18]
- Leukemia Mononuclear
Hypercellularity
Hemorrhage
- Leukemia Mononuclear
Nephropathy
- Leukemia Mononuclear
Infiltration Cellular
Inflammation
Leukemia Mononuclear
- Accumulation, Hyaline Droplet
Hemorrhage
Leukemia Mononuclear
- Hemorrhage
Leukemia Mononuclear
- Moderate
Marked
- Chronicprogr, Mild
- Histiocyte, Mild
Granulomatous, Focal, Minimal
- Moderate
Mild
- Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 214

TRT#: 9

SEX: Male

DAY ON TEST: 657

DOSE: 20000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301739

ORGAN AND ACCOUNTABLE SITE STATUS

Testis
* Thymus

Germinal Epith

Degeneration
Atrophy

Minimal
Moderate

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Brain Hemorrhage

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 215

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301740

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|------------------|--------------|--|-------------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Bone | | Increased Bone | |
| * Brain | | Necrosis | Mild |
| * Kidney | Renal Tubule | Cyst | |
| | Renal Tubule | Hyperplasia | Minimal |
| | | Nephropathy | Chronicprogr, Marked |
| | | [Cyst TGLs = 3 - 18] | |
| | | [Nephropathy TGLs = 2 - 17+18] | |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Pigment | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | | [Infiltration Cellular TGLs = 1 - 6+7] | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| Testis | | Polyarteritis Nodosa | Mild |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 215

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301740

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Marked

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 216

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Mammary Gland
- * Parathyroid Gland
- * Salivary Glands
- * Seminal Vesicle
- * Stomach, Glandular
- * Thyroid Gland
- Blood Vessel
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Skin
- * Trachea
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Prostate
- * Stomach, Forestomach
- * Urinary Bladder

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Kidney Nephropathy Chronicprogr, Minimal
- * Liver Cholangiocarcinoma Clear Cell Focus Hyperplasia Minimal
- * Lung [Cholangiocarcinoma TGLs = 1 - 17] Bile Duct Alveolar Epith Hyperplasia Mild Infiltration Cellular Histiocyte, Minimal Inflammation Granulomatous, Focal, Minimal
- * Nose Epithelium Accumulation, Hyaline Droplet Minimal
- * Pancreas Acinus Adenoma Multiple Acinus Hyperplasia Moderate
- [Adenoma TGLs = 2 - 9+18]
- Peripheral Nerve Ganglion Infiltration Cellular Histiocyte, Minimal
- Note: Ganglion in prostate gland involved.
- * Pituitary Gland Pars Distalis Adenoma
- * Spleen Extramedullary Hematopoiesis Mild Pigment Minimal Degeneration Minimal Atrophy Mild
- Testis Germinal Epith
- * Thymus

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 217

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Mammary Gland
- * Parathyroid Gland
- * Prostate
- * Salivary Glands
- * Stomach, Forestomach
- * Stomach, Glandular
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Seminal Vesicle
- Testis
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Skin
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Kidney
 - Nephropathy
 - Basophilic Focus
 - Clear Cell Focus
 - Eosinophilic Focus
 - Mixed Cell Focus
 - Pigment
- * Liver
 - Infiltration Cellular
 - Inflammation
- * Lung
 - [Infiltration Cellular TGLs = 3 - 6+7]
 - Infiltration Cellular
 - Inflammation
- * Nose
 - Epithelium
 - Accumulation, Hyaline Droplet
- * Pancreas
 - Acinus
 - Adenoma
 - Acinus
 - Hyperplasia
- * Spleen
 - [Hyperplasia TGLs = 1,2 - 17+18]
 - Extramedullary Hematopoiesis
 - Pigment
- * Thymus
 - Atrophy
- * Thyroid Gland
 - C Cell
 - Hyperplasia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 218

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Mammary Gland
- * Parathyroid Gland
- * Prostate
- * Salivary Glands
- * Stomach, Forestomach
- * Stomach, Glandular
- Blood Vessel
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Seminal Vesicle
- * Trachea
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Skin
- * Urinary Bladder

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Kidney
 - Nephropathy
 - Chronicprogr, Mild
- * Liver
 - Angiectasis
 - Mild
 - Basophilic Focus
 - Bile Duct
 - Clear Cell Focus
 - Hyperplasia
 - Minimal
 - Mixed Cell Focus
 - Pigment
 - Minimal
 - * Lung
 - Infiltration Cellular
 - Histiocyte, Moderate
 - Inflammation
 - Granulomatous, Focal, Minimal
 - [Infiltration Cellular TGLs = 4 - 6+7]
 - * Nose
 - Epithelium
 - Accumulation, Hyaline Droplet
 - Marked
 - * Pancreas
 - Acinus
 - Adenoma
 - * Spleen
 - Extramedullary Hematopoiesis
 - Mild
 - Pigment
 - Minimal
 - Testis
 - Germinal Epith
 - Degeneration
 - Moderate
 - [Degeneration TGLs = 1 - 17]
 - * Thymus
 - Atrophy
 - Mild
 - * Thyroid Gland
 - C Cell
 - Hyperplasia
 - Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 219

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|------------------|--|-------------------------------|--------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Cyst | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 220

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301745

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Seminal Vesicle
- * Trachea
- Blood Vessel
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Mammary Gland
- * Preputial Gland
- * Skin
- * Urinary Bladder
- * Bone
- * Esophagus
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Prostate
- * Stomach, Forestomach
- * Bone Marrow
- * Eye
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Glandular

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Intestine Large, Colon
- * Kidney
- * Liver
- [Mixed Cell Focus TGLs = 2 - 19]
- * Lung
- [Infiltration Cellular TGLs = 3,4 - 6+7]
- * Nose
- * Spleen
- Testis
- * Thymus
- * Thyroid Gland
- [Adenoma TGLs = 1 - 18]
- Hypertrophy
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Eosinophilic Focus
- Mixed Cell Focus
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Atrophy
- Adenoma
- Focal, Minimal
- Minimal
- Chronicprogr, Mild
- Minimal
- Histiocyte, Mild
- Minimal
- Mild
- Minimal
- Mild
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 221

TRT#: 9

SEX: Male

DAY ON TEST: 648

DOSE: 20000 ppm males

DISP: Natural Death

HISTO: 1301746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Pancreas
- * Parathyroid Gland
- * Seminal Vesicle
- * Skin
- * Thyroid Gland
- * Trachea
- Blood Vessel
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Stomach, Glandular
- * Urinary Bladder
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Salivary Glands
- Testis

MISSING

- * Mammary Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Kidney Nephropathy Chronicprogr, Minimal
- * Liver Bile Duct Hyperplasia Minimal
- * Lung Pigment Mild
- [Infiltration Cellular TGLs = 2 - 6+7] Infiltration Cellular Histiocyte, Mild
- * Nose Inflammation Suppurative, Moderate
- * Pituitary Gland Pars Distalis Adenoma
- [Adenoma TGLs = 1 - 17]
- * Prostate Inflammation Chronic Active, Minimal
- * Spleen White Pulp Atrophy Moderate
- Epithelium Pigment Moderate
- * Stomach, Forestomach Hyperplasia Minimal
- Inflammation Chronic Active, Mild
- Necrosis Minimal
- * Thymus Atrophy Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 222

TRT#: 9

SEX: Male

DAY ON TEST: 676

DOSE: 20000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-----------------|---|-------------------------------|-----------------------|
| * Brain | | Glioma Malignant | |
| | | Necrosis | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Mild |
| | | Pigment | Minimal |
| | [Hepatocellular Adenoma TGLs = 1,2 - 17+18] | | |
| | [Necrosis TGLs = 3 - 19] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | [Infiltration Cellular TGLs = 4 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| | Olfactory Epi | Necrosis | Minimal |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Spleen | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 222

TRT#: 9

SEX: Male

DAY ON TEST: 676

DOSE: 20000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301747

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Brain Glioma Malignant

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 223

TRT#: 9

SEX: Male

DAY ON TEST: 639

DOSE: 20000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	Testis	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
[Adenoma TGLs = 2 - 17]			
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Pigment	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLs = 1 - 6+7]			
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Moderate
		Ulcer	Mild
[Inflammation TGLs = 3 - 9]			
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 223

TRT#: 9

SEX: Male

DAY ON TEST: 639

DOSE: 20000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301748

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Islets, Pancreatic Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Stomach, Forestomach Ulcer

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 224

TRT#: 9

SEX: Male

DAY ON TEST: 699

DOSE: 20000 ppm males

DISP: Natural Death

HISTO: 1301749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Nose
- * Pancreas
- * Preputial Gland
- * Prostate
- * Skin
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Glandular
- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Pituitary Gland
- * Seminal Vesicle
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Heart
 - Valve
 - Cardiomyopathy
 - Fibrosis
 - Nephropathy
 - Basophilic Focus
 - Hyperplasia
 - Infiltration Cellular
- * Kidney
- * Liver
 - Bile Duct
 - Minimal
 - Histiocyte, Moderate
- * Lung
 - [Infiltration Cellular TGLs = 1 - 6+7]
 - Extramedullary Hematopoiesis
 - Pigment
 - Degeneration
 - Atrophy
 - Hyperplasia
 - Adenoma
- * Spleen
 - Mild
 - Mild
- Testis
 - Germinal Epith
 - Minimal
- * Thymus
 - Mild
 - Lymphocyte, Minimal
- * Thyroid Gland
 - C Cell
 - Minimal
- [Adenoma TGLs = 2 - 11]

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 225

TRT#: 9

SEX: Male

DAY ON TEST: 647

DOSE: 20000 ppm males

DISP: Natural Death

HISTO: 1301750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

AUTO PRECLUDES DIAG.

- * Liver

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------------|----------------------|
| * Bone Marrow | | Hypercellularity | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| Lymph Node | Mediastinal | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 1 - 18] | | |
| * Lymph Node, Mesenteric | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 4 - 17] | | |
| Mesentery | | Lymphoma Malignant | |
| * Prostate | | Inflammation | Chronic Active, Mild |
| * Spleen | White Pulp | Atrophy | Marked |
| | | Extramedullary Hematopoiesis | Mild |
| * Thymus | | Lymphoma Malignant | |

PRIMARY CAUSE OF DEATH

- Lymph Node Mediastinal Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 226

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301751

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------------|----------------------------------|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Small, Jejunum | | Adenocarcinoma | |
| | [Adenocarcinoma TGLs = 1 - 17] | | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Pigment | Minimal |
| * Lung | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pancreas | Acinus | Hyperplasia | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 227

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Pituitary Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---|------------|-------------------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pancreas | Acinus | Cytoplasmic Alteration | Moderate |
| Note: Involved acinar cells lack basal basophilia but have retained zymogen granules. | | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 228

TRT#: 9

SEX: Male

DAY ON TEST: 694

DOSE: 20000 ppm males

DISP: Natural Death

HISTO: 1301753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|---------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Jejunum |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Thyroid Gland | * Trachea | * Urinary Bladder |

AUTO PRECLUDES DIAG.

- | | |
|--------------------------|--------------------------|
| * Intestine Large, Cecum | * Intestine Small, Ileum |
|--------------------------|--------------------------|

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--|------------|------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Small, Duodenum | | Adenocarcinoma | |
| [Adenocarcinoma TGLs = 3 - 18] | | | |
| * Islets, Pancreatic | | Adenoma | Multiple |
| Note: Second adenoma in B09. | | | |
| [Adenoma TGLs = 1 - 17] | | | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| [Nephropathy TGLs = 4 - 19] | | | |
| * Liver | | Eosinophilic Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| [Infiltration Cellular TGLs = 2 - 6+7] | | | |
| * Parathyroid Gland | | Adenoma | |
| * Prostate | Epithelium | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Intestine Small, Duodenum Adenocarcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 229

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301754

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------------|-----------------|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| | Endocardium | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Hepatocellular Carcinoma | |
| | Bile Duct | Hyperplasia | Minimal |
| [Hepatocellular Carcinoma | TGLs = 1 - 17] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 230

TRT#: 9

SEX: Male

DAY ON TEST: 682

DOSE: 20000 ppm males

DISP: Natural Death

HISTO: 1301755

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Skin
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Prostate
- * Stomach, Glandular
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Seminal Vesicle
- Testis

MISSING

- * Parathyroid Gland
- * Salivary Glands
- * Thyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
- Bile Duct
- [Hepatocellular Carcinoma TGLs = 2 - 18]
- [Hepatodiaphragmatic Nodule TGLs = 1 - 17]
- * Lung
- * Nose
- * Spleen
- Epithelium
- White Pulp
- Hypertrophy
- Necrosis
- Hypercellularity
- Nephropathy
- Basophilic Focus
- Hepatocellular Carcinoma
- Hepatodiaphragmatic Nodule
- Hyperplasia
- Pigment
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Atrophy
- Extramedullary Hematopoiesis
- Focal, Minimal
- Minimal
- Moderate
- Chronicprogr, Minimal
- Minimal
- Minimal
- Histiocyte, Minimal
- Granulomatous, Focal, Minimal
- Minimal
- Minimal
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 230

TRT#: 9

SEX: Male

DAY ON TEST: 682

DOSE: 20000 ppm males

DISP: Natural Death

HISTO: 1301755

ORGAN AND ACCOUNTABLE SITE STATUS

Pigment

Minimal

Atrophy

Moderate

* Thymus

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

Experiment Number: 20712 - 03
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Tris(Chloropropyl)phosphate
CAS Number: 13674-84-5

Date Report Requested: 09/18/2020
Time Report Requested: 11:04:53
First Dose M/F: 12/12/11 / 12/13/11
Lab: BAT

ANIMAL ID: 231

TRT#: 9

SEX: Male

DAY ON TEST: 710

DOSE: 20000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301756

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Esophagus |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Preputial Gland | * Seminal Vesicle | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

* Adrenal Cortex			Hypertrophy	Focal, Minimal
			Lymphoma Malignant	
* Bone Marrow			Lymphoma Malignant	
* Brain			Lymphoma Malignant	
* Epididymis	Epithelium		Degeneration	Mild
	[Degeneration TGLs = 5 - 14]			
* Eye			Lymphoma Malignant	
* Harderian Gland			Lymphoma Malignant	
* Heart			Lymphoma Malignant	
* Intestine Small, Jejunum			Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 12 - 24]			
* Islets, Pancreatic			Lymphoma Malignant	
* Kidney	Renal Tubule		Accumulation, Hyaline Droplet	Marked
	[Lymphoma Malignant TGLs = 6,7 - 19+20]		Lymphoma Malignant	
* Liver			Clear Cell Focus	
	Bile Duct		Hyperplasia	Mild
			Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 2 - 12]			
* Lung			Infiltration Cellular	Histiocyte, Mild
			Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 10 - 6+7]			
Lymph Node	Mediastinal		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 231

TRT#: 9

SEX: Male

DAY ON TEST: 710

DOSE: 20000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301756

ORGAN AND ACCOUNTABLE SITE STATUS

	Renal		Lymphoma Malignant	
	Pancreatic		Lymphoma Malignant	
	[Lymphoma Malignant	TGLs = 9 - 22]		
	[Lymphoma Malignant	TGLs = 8 - 21]		
* Lymph Node, Mandibular			Lymphoma Malignant	
	[Lymphoma Malignant	TGLs = 1 - 17]		
* Lymph Node, Mesenteric			Lymphoma Malignant	
	[Lymphoma Malignant	TGLs = 11 - 23]		
* Mammary Gland			Lymphoma Malignant	
* Nose	Epithelium		Accumulation, Hyaline Droplet	Minimal
			Lymphoma Malignant	
* Pancreas	Acinus		Hyperplasia	Marked
			Lymphoma Malignant	
* Parathyroid Gland			Lymphoma Malignant	
Peripheral Nerve	Trigeminal		Lymphoma Malignant	
* Pituitary Gland			Lymphoma Malignant	
* Prostate			Lymphoma Malignant	
* Salivary Glands			Lymphoma Malignant	
* Skin			Lymphoma Malignant	
* Spleen			Lymphoma Malignant	
	[Lymphoma Malignant	TGLs = 3 - 18]		
* Stomach, Forestomach			Lymphoma Malignant	
Testis	Germinal Epith		Degeneration	Mild
	[Degeneration	TGLs = 4 - 14]		
* Thymus			Lymphoma Malignant	
* Thyroid Gland	C Cell		Hyperplasia	Mild
			Lymphoma Malignant	

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 232

TRT#: 9

SEX: Male

DAY ON TEST: 669

DOSE: 20000 ppm males

DISP: Natural Death

HISTO: 1301757

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------|------------|-------------------------------|--------------------|
| * Brain | | Necrosis | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Spleen | White Pulp | Atrophy | Moderate |
| | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH

- Brain Necrosis

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 233

TRT#: 9

SEX: Male

DAY ON TEST: 710

DOSE: 20000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301758

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

* Bone Marrow		Hypercellularity	Marked
* Intestine Large, Cecum		Infiltration Cellular	Lymphocyte, Mild
	[Infiltration Cellular TGLs = 8 - 21]		
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Bile Duct	Cyst	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Pigment	Minimal
	[Cyst TGLs = 3 - 19]		
	[Hepatocellular Adenoma TGLs = 1 - 17]		
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Granulomatous, Focal, Minimal
	[Infiltration Cellular TGLs = 7 - 6+7]		
* Nose		Accumulation, Hyaline Droplet	Moderate
* Skin	Epithelium	Fibroma	
	Subcut Tiss		
	[Fibroma TGLs = 2 - 18]		
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Mild
Testis	Germinal Epith	Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 233

TRT#: 9

SEX: Male

DAY ON TEST: 710

DOSE: 20000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301758

ORGAN AND ACCOUNTABLE SITE STATUS

Mineral

Mild

[Degeneration TGLs = 4,5,6 - 20]

Atrophy

Moderate

* Thymus

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 234

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301759

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Seminal Vesicle
- * Stomach, Glandular
- * Thymus
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Skin
- * Thyroid Gland
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Mammary Gland
- * Prostate
- * Stomach, Forestomach
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Islets, Pancreatic
- * Kidney
- * Liver
- Bile Duct
- [Dilation TGLs = 2 - 18]
- * Lung
- [Infiltration Cellular TGLs = 3 - 6+7]
- * Nose
- * Pituitary Gland
- * Spleen
- Testis
- [Adenoma TGLs = 1 - 17]
- Hyperplasia
- Nephropathy
- Clear Cell Focus
- Dilation
- Eosinophilic Focus
- Mixed Cell Focus
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Mild
- Chronicprogr, Mild
- Marked
- Histiocyte, Mild
- Granulomatous, Focal, Minimal
- Marked
- Minimal
- Mild
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 235

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	Testis
* Thymus	* Trachea	* Urinary Bladder	

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Eosinophilic Focus	
	[Clear Cell Focus TGLs = 2,3 - 19+20]	Hyperplasia	Minimal
	[Eosinophilic Focus TGLs = 1 - 18]		
* Lung		Inflammation	Granulomatous, Focal, Minimal
* Nose	Epithelium	Accumulation, Hyaline Droplet	Moderate
* Parathyroid Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 4 - 21]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 236

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301761

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|---------------------|----------|
| * Parathyroid Gland | * Spleen |
|---------------------|----------|

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---|-------------|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Cyst | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Inflammation | Granulomatous, Focal, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Skin | Subcut Tiss | Sarcoma | |
| Note: Possible malignant schwannoma.
[Sarcoma TGLs = 1 - 18] | | | |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 237

TRT#: 9

SEX: Male

DAY ON TEST: 700

DOSE: 20000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301762

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|--------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Kidney | | Infarct | Minimal |
| | | Nephropathy | Chronicprogr, Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| | | Inflammation | Suppurative, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2 - 17] | | |
| * Spleen | White Pulp | Atrophy | Mild |
| | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 238

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301763

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|---|-----------------|-------------------------------|-------------------------|
| * Bone Marrow | | Hypercellularity | Minimal |
| * Brain | | Gliosis | Minimal |
| Note: Slide 03, level 3 has asymmetrical cut with nigrostriatal neurons on one side only, with gliosis. | | | |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | |
| | Bile Duct | Hyperplasia | Minimal |
| [Hepatocellular Adenoma | TGLs = 1 - 18] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Prostate | Epithelium | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| Testis | | Polyarteritis Nodosa | Minimal |
| * Thymus | | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 239

TRT#: 9

SEX: Male

DAY ON TEST: 414

DOSE: 20000 ppm males

DISP: Moribund Sacrifice

HISTO: 1301764

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Mammary Gland |
| Nerve Trigeminal | * Pancreas | * Parathyroid Gland | Peripheral Nerve |
| * Pituitary Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | Spinal Cord | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|--------------------------|--|-------------------------------|-------------------------------|
| * Bone | | Increased Bone | |
| * Bone Marrow | | Lymphoma Malignant | |
| | | Necrosis | Moderate |
| * Brain | | Lymphoma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Lymphoma Malignant | |
| | | Pigment | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Lymph Node, Mandibular | | Lymphoma Malignant | |
| * Lymph Node, Mesenteric | | Lymphoma Malignant | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| | | Lymphoma Malignant | |
| * Prostate | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Bone Marrow Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 240

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Pigment | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Germinal Epith | Degeneration | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 241

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Mammary Gland
- * Parathyroid Gland
- * Salivary Glands
- * Seminal Vesicle
- Testis
- * Thyroid Gland
- Blood Vessel
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Skin
- * Trachea
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Prostate
- * Stomach, Forestomach
- * Urinary Bladder

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Kidney
 - Nephropathy
 - Chronicprogr, Minimal
- * Liver
 - Bile Duct
 - Clear Cell Focus
 - Cyst
 - Degeneration
 - Cystic, Minimal
 - Eosinophilic Focus
 - Hyperplasia
 - Minimal
 - Pigment
 - Minimal
 - [Cyst TGLs = 2,3,4 - 12+18+19]
 - [Eosinophilic Focus TGLs = 5 - 20]
- * Lung
 - Infiltration Cellular
 - TGLs = 6 - 6+7]
 - Histiocyte, Mild
- * Nose
 - Epithelium
 - Accumulation, Hyaline Droplet
 - Moderate
- * Pancreas
 - Acinus
 - Adenoma
 - Multiple
 - Hyperplasia
 - Mild
 - Acinus
 - [Adenoma TGLs = 1 - 17]
- * Pituitary Gland
 - Pars Distalis
 - Hyperplasia
 - Minimal
- * Spleen
 - Extramedullary Hematopoiesis
 - Mild
 - Pigment
 - Minimal
- * Stomach, Glandular
 - Mineral
 - Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 241

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301766

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 242

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301767

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| Skeletal Muscle | * Skin | * Stomach, Forestomach | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|---|---|---|
| * Heart | | Cardiomyopathy
Schwannoma Malignant | Minimal |
| | [Schwannoma Malignant TGLs = 1 - 18] | | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular
Inflammation | Histiocyte, Mild
Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| Skel Muscle | | | |
| | Note: Examined because of sample taken for molecular biology. | | |
| * Spleen | | Extramedullary Hematopoiesis
Pigment | Mild
Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 242

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301767

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

Mineral

Minimal

* Thymus

Atrophy

Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 243

TRT#: 9

SEX: Male

DAY ON TEST: 690

DOSE: 20000 ppm males

DISP: Natural Death

HISTO: 1301768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Prostate
- * Stomach, Forestomach
- * Trachea
- Blood Vessel
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Salivary Glands
- * Stomach, Glandular
- * Urinary Bladder
- * Bone
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Seminal Vesicle
- Testis
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Skin
- * Thyroid Gland

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Heart
- * Kidney
- * Liver
- * Lung
- * Nose
- * Spleen
- * Thymus
- Epithelium
- [Leukemia Mononuclear TGLs = 1 - 17]
- Hyperplasia
- Hypercellularity
- Hemorrhage
- Cardiomyopathy
- Leukemia Mononuclear
- Nephropathy
- Leukemia Mononuclear
- Leukemia Mononuclear
- Accumulation, Hyaline Droplet
- Leukemia Mononuclear
- Atrophy
- Focal, Mild
- Moderate
- Mild
- Minimal
- Chronicprogr, Mild
- Mild
- Mild

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 244

TRT#: 9

SEX: Male

DAY ON TEST: 635

DOSE: 20000 ppm males

DISP: Natural Death

HISTO: 1301769

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Cyst | |
| | | Pigment | Minimal |
| | [Cyst TGLs = 4 - 18] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 5 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| | | Foreign Body | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Prostate | | Inflammation | Suppurative, Mild |
| * Skin | | Sarcoma | |
| | [Sarcoma TGLs = 3 - 17] | | |
| * Spleen | White Pulp | Atrophy | Mild |
| | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 244

TRT#: 9

SEX: Male

DAY ON TEST: 635

DOSE: 20000 ppm males

DISP: Natural Death

HISTO: 1301769

ORGAN AND ACCOUNTABLE SITE STATUS

Testis	Germinal Epith	Degeneration	Moderate
[Degeneration TGLs = 1 - 14]			
* Thymus		Atrophy	Moderate
* Urinary Bladder		Inflammation	Chronic Active, Mild
[Inflammation TGLs = 2 - 8]			

PRIMARY CAUSE OF DEATH - Skin Sarcoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 245

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301770

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | Testis |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|----------------------|--------------------------------|-------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Pigment | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Preputial Gland | | Inflammation | Suppurative, Marked |
| | [Inflammation TGLs = 1 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Stomach, Glandular | | Mineral | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 246

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Pancreas
- * Parathyroid Gland
- * Prostate
- * Salivary Glands
- * Stomach, Forestomach
- * Stomach, Glandular
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Seminal Vesicle
- * Thyroid Gland
- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Preputial Gland
- * Skin
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Heart
- * Kidney
- * Liver
- Bile Duct
- [Mixed Cell Focus TGLs = 1 - 17]
- * Lung
- [Infiltration Cellular TGLs = 2 - 6+7]
- * Nose
- * Spleen
- Testis
- * Thymus
- Cardiomyopathy
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Hyperplasia
- Mixed Cell Focus
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Atrophy
- Minimal
- Chronicprogr, Minimal
- Minimal
- Minimal
- Histiocyte, Mild
- Mild
- Mild
- Minimal
- Minimal
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 247

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- | | | | |
|-------------------|------------|-------------------------------|------------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Minimal |
| * Harderian Gland | | Atrophy | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Pigment | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 248

TRT#: 9

SEX: Male

DAY ON TEST: 574

DOSE: 20000 ppm males

DISP: Natural Death

HISTO: 1301773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Epididymis
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lung
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Testis
- * Trachea
- * Urinary Bladder

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Bone Marrow
 - * Kidney
 - * Liver
 - * Lymph Node, Mandibular
 - [Carcinoma TGLs = 1 - 17]
 - * Nose
 - * Spleen
 - * Thymus
 - * Thyroid Gland
 - [Carcinoma TGLs = 2 - 18]
- | | | | |
|--|------------|-------------------------------|----------------------------|
| | Epithelium | Hemorrhage | Moderate |
| | White Pulp | Nephropathy | Chronicprogr, Minimal |
| | | Pigment | Minimal |
| | | Carcinoma | Metastatic (Thyroid Gland) |
| | | Accumulation, Hyaline Droplet | Moderate |
| | | Atrophy | Marked |
| | | Pigment | Mild |
| | | Atrophy | Marked |
| | C Cell | Carcinoma | |

PRIMARY CAUSE OF DEATH - Thyroid Gland C Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 249

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301774

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Prostate
- * Stomach, Glandular
- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Salivary Glands
- Testis
- * Bone Marrow
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Seminal Vesicle
- * Trachea

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
 - Renal Tubule
 - [Nephropathy TGLs = 2 - 8]
- * Liver
 - Hyperplasia
 - Cardiomyopathy
 - Accumulation, Hyaline Droplet
 - Nephropathy
 - Basophilic Focus
 - Clear Cell Focus
 - Histiocytic Sarcoma
 - Pigment
 - Histiocytic Sarcoma
 - Infiltration Cellular
- * Lung
 - Infiltration Cellular TGLs = 5,6 - 6+7]
 - Lymph Node Inguinal
 - [Histiocytic Sarcoma TGLs = 3 - 19]
 - Histiocytic Sarcoma
- * Nose
 - Epithelium
 - Accumulation, Hyaline Droplet
 - Histiocytic Sarcoma
- * Pancreas
 - [Histiocytic Sarcoma TGLs = 4 - 20]
- * Pituitary Gland
 - Pars Distalis
 - Adenoma
 - [Adenoma TGLs = 7 - 11]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 249

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301774

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Subcut Tiss	Histiocytic Sarcoma	
[Histiocytic Sarcoma	TGLs = 1 - 18]		
* Spleen	White Pulp	Atrophy	Minimal
		Extramedullary Hematopoiesis	Moderate
		Pigment	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 250

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 20000 ppm males

DISP: Terminal Sacrifice

HISTO: 1301775

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Trachea	* Urinary Bladder	

PRESENT BUT NOT EXAMINED

- * Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
	[Adenoma TGLs = 1 - 17]		
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Moderate
	[Infiltration Cellular TGLs = 2 - 6+7]	Inflammation	Granulomatous, Focal, Minimal
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 251

TRT#: 2

SEX: Female

DAY ON TEST: 593

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--|---------------|-------------------------------|-------------------------|
| * Adrenal Cortex | Bilateral | Necrosis | Marked |
| Blood Vessel | | Inflammation | Chronic Active, Minimal |
| Note: Cardiac and ovarian arteries are inflamed. | | | |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| [Infiltration Cellular TGLs = 5 - 6+7] | | | |
| Lymph Node | Lumbar | Infiltration Cellular | Histiocyte, Mild |
| | Lumbar | Pigment | Moderate |
| [Infiltration Cellular TGLs = 3 - 18] | | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| Note: TGL-1 also present on slide 15 with clitoral glands. | | | |
| [Fibroadenoma TGLs = 1,2 - 16+17] | | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Moderate |
| | Follicle | Cyst | |
| | | Fibrosis | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Marked |
| [Extramedullary Hematopoiesis TGLs = 4 - 8] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 251

TRT#: 2

SEX: Female

DAY ON TEST: 593

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301796

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Mild
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus		Squamous Metaplasia	Minimal
Vagina		Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH - Adrenal Cortex Bilateral Necrosis

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 252

TRT#: 2

SEX: Female

DAY ON TEST: 568

DOSE: 0 ppm females

DISP: Natural Death

HISTO: 1301797

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|----------------------|-------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Rectum | * Islets, Pancreatic | * Liver |
| * Lymph Node, Mandibular | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | Vagina | |

MISSING

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Clitoral Gland | * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mesenteric | * Pancreas | * Spleen |

AUTO PRECLUDES DIAG.

- * Intestine Large, Colon

OBSERVATIONS

- | | | | |
|-----------------|--|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | | Galactocele | Moderate |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| | | Inflammation | Acute, Minimal |
| * Ovary | | Atrophy | Moderate |
| * Thymus | | Atrophy | Mild |
| * Uterus | | Squamous Metaplasia | Minimal |

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 253

TRT#: 2

SEX: Female

DAY ON TEST: 616

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

MISSING

- * Clitoral Gland

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-------------------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| | Hepatocyte | Cytoplasmic Alteration | Minimal |
| | Hepatocyte | Hypertrophy | Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 2,3 - 6+7] | | |
| | Lymph Node | Hyperplasia | Plasma Cell, Mild |
| | [Hyperplasia TGLs = 4 - 17] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Ovary | | Atrophy | Mild |
| | Paraovarian | Cyst | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Marked |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 254

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | Vagina | |

MISSING

- * Nose

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|-------------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Minimal |
| * Kidney | | Inflammation | Suppurative, Mild |
| | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2 - 18] | | |
| * Ovary | | Atrophy | Moderate |
| | Follicle | Cyst | |
| | [Cyst TGLs = 3 - 14] | | |
| * Pancreas | Acinus | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 254

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301799

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Inflammation

Suppurative, Mild

Squamous Metaplasia

Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 255

TRT#: 2

SEX: Female

DAY ON TEST: 669

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| Blood Vessel | * Bone | * Clitoral Gland | * Esophagus |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|----------------------|--|----------------------------------|-----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear
Necrosis | Minimal |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Hypercellularity | Marked |
| * Brain | | Hemorrhage | Mild |
| | [Hemorrhage TGLs = 4 - 4+5] | Leukemia Mononuclear | |
| * Eye | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Leukemia Mononuclear | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 3 - 6+7] | Leukemia Mononuclear | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | | Leukemia Mononuclear | |
| * Spleen | | Hemorrhage | Mild |
| | [Hemorrhage TGLs = 1 - 16] | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2 - 17] | | |
| * Stomach, Glandular | | Mineral | Mild |
| * Thymus | | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 255

TRT#: 2

SEX: Female

DAY ON TEST: 669

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301800

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

* Uterus

Squamous Metaplasia

Mild

Vagina

Inflammation

Suppurative, Mild

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Brain Hemorrhage

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 256

TRT#: 2

SEX: Female

DAY ON TEST: 577

DOSE: 0 ppm females

DISP: Natural Death

HISTO: 1301801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pituitary Gland
- * Stomach, Glandular
- Vagina
- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Thyroid Gland
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Pancreas
- * Skin
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Stomach, Forestomach
- * Urinary Bladder

OBSERVATIONS

- * Bone Marrow
 - * Kidney
 - * Liver
 - * Lung
 - [Infiltration Cellular TGLs = 2 - 6+7]
 - * Lymph Node, Mandibular
 - * Mammary Gland
 - [Fibroadenoma TGLs = 1 - 16]
 - * Nose
 - * Ovary
 - * Spleen
 - * Thymus
 - * Uterus
- | | | |
|--|-------------------------------|-----------------------|
| | Hypercellularity | Marked |
| | Nephropathy | Chronicprogr, Minimal |
| | Necrosis | Minimal |
| | Infiltration Cellular | Histiocyte, Moderate |
| | Atrophy | Moderate |
| | Fibroadenoma | |
| | Accumulation, Hyaline Droplet | Minimal |
| | Atrophy | Mild |
| | Atrophy | Mild |
| | Extramedullary Hematopoiesis | Moderate |
| | Atrophy | Mild |
| | Polyp Stromal | |
| | Squamous Metaplasia | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 257

TRT#: 2

SEX: Female

DAY ON TEST: 614

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301802

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

OBSERVATIONS

- | | | | |
|--|------------|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Necrosis | Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| Lymph Node | Lumbar | Hyperplasia | Plasma Cell, Mild |
| [Hyperplasia TGLs = 4 - 19] | | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| [Fibroadenoma TGLs = 1,2,3 - 16+17+18] | | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 258

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland
- * Vagina
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Trachea
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular
- * Uterus

OBSERVATIONS

- * Adrenal Cortex **Bilateral** Hypertrophy Focal, Mild
- * Intestine Large, Rectum Parasite Metazoan
- * Kidney Developmental Malformation
- Ectopic Tissue Adrenal Cortex
- Infarct Minimal
- Inflammation Suppurative, Mild
- Nephropathy Chronicprogr, Minimal

- Note: Ectopic adrenal cortex in left renal cortex.
- * Liver Clear Cell Focus
- * Lung Infiltration Cellular Histiocyte, Minimal
- [Infiltration Cellular TGLs = 3 - 6+7]
- * Mammary Gland Fibroadenoma Multiple
- Hyperplasia Marked
- [Fibroadenoma TGLs = 1,2 - 17+18]
- * Nose Epithelium Accumulation, Hyaline Droplet Mild
- * Ovary Follicle Cyst
- * Pituitary Gland Pars Distalis Hyperplasia Marked
- * Spleen Extramedullary Hematopoiesis Mild
- Pigment Minimal
- * Thymus Atrophy Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 259

TRT#: 2

SEX: Female

DAY ON TEST: 473

DOSE: 0 ppm females

DISP: Natural Death

HISTO: 1301804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	Vagina

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Kidney		Infarct	Minimal
* Liver		Necrosis	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[Infiltration Cellular TGLs = 2 - 6]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 16]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Moderate
* Spleen	White Pulp	Atrophy	Mild
		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 260

TRT#: 2

SEX: Female

DAY ON TEST: 661

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301805

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Trachea
- Blood Vessel
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Urinary Bladder
- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- Vagina
- * Bone Marrow
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular

OBSERVATIONS

- * Adrenal Cortex
 - Bilateral
 - Degeneration
 - Cystic, Minimal
- * Heart
 - Hypertrophy
 - Focal, Minimal
- * Kidney
 - Cardiomyopathy
 - Minimal
- * Liver
 - Nephropathy
 - Chronicprogr, Minimal
- * Lung
 - Bile Duct
 - Hyperplasia
 - Minimal
 - Infiltration Cellular
 - Histiocyte, Mild
- [Infiltration Cellular TGLs = 2 - 6+7]
- * Mammary Gland
 - [Fibroadenoma TGLs = 3 - 16]
 - Fibroadenoma
- * Nose
 - Epithelium
 - Accumulation, Hyaline Droplet
 - Marked
- * Ovary
 - Follicle
 - Atrophy
 - Mild
 - Cyst
- * Pituitary Gland
 - Pars Distalis
 - Adenoma
- [Adenoma TGLs = 1 - 17]
- * Spleen
 - Extramedullary Hematopoiesis
 - Minimal
 - Pigment
 - Mild
- * Thymus
 - Atrophy
 - Mild
- * Thyroid Gland
 - C Cell
 - Hyperplasia
 - Minimal
- * Uterus
 - Endometrium
 - Hyperplasia
 - Cystic, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 261

TRT#: 2

SEX: Female

DAY ON TEST: 596

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | Vagina | |

MISSING

- * Clitoral Gland

OBSERVATIONS

- | | | | |
|----------------------|-------------------------------------|-------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Bone Marrow | | Hypercellularity | Marked |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2 - 16+17] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Mild |
| | Follicle | Cyst | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLs = 3 - 18] | | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 262

TRT#: 2

SEX: Female

DAY ON TEST: 329

DOSE: 0 ppm females

DISP: Natural Death

HISTO: 1301807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Skin
- * Trachea
- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Liver
- * Parathyroid Gland
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Stomach, Glandular
- Vagina
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Thyroid Gland

OBSERVATIONS

- * Bone Marrow
- * Kidney
- * Lung
 - [Infiltration Cellular TGLs = 2 - 6+7]
- * Mammary Gland
 - [Fibroadenoma TGLs = 1 - 16]
- * Nose
- * Ovary
- * Spleen
- * Thymus
- * Uterus
- Epithelium
- White Pulp
- Endometrium
- Hypercellularity
- Nephropathy
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Hyperplasia
- Squamous Metaplasia
- Moderate
- Chronicprogr, Minimal
- Histiocyte, Minimal
- Moderate
- Mild
- Mild
- Mild
- Minimal
- Minimal
- Cystic, Minimal
- Atypical, Mild
- Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 263

TRT#: 2

SEX: Female

DAY ON TEST: 725

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| Vagina | | | |

OBSERVATIONS

- | | | | |
|----------------------|--------------------------------|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Moderate |
| | Follicle | Cyst | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Stomach, Glandular | | Mineral | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 264

TRT#: 2

SEX: Female

DAY ON TEST: 551

DOSE: 0 ppm females

DISP: Natural Death

HISTO: 1301809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---------------|--|-------------------------------|---------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Ovary | | Atrophy | Mild |
| * Spleen | White Pulp | Atrophy | Moderate |
| | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Uterus | | Dilation | Marked |
| | | Inflammation | Suppurative, Marked |
| | [Dilation TGLs = 1 - 16+17] | | |

PRIMARY CAUSE OF DEATH - Uterus Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 265

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Pancreas |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| Vagina | | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|--|-------------|-------------------------------|------------------------------|
| * Lung | | Cyst
Infiltration Cellular | Squamous
Histiocyte, Mild |
| Note: Cystic keratinizing epithelioma.
[Infiltration Cellular TGLs = 2 - 6+7] | | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1 - 17] | | | |
| * Ovary | | Atrophy | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 266

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301811

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | Vagina | |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | [Mixed Cell Focus TGLs = 2 - 18] | Mixed Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 3 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1- 17] | Hyperplasia | Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 267

TRT#: 2

SEX: Female

DAY ON TEST: 241

DOSE: 0 ppm females

DISP: Natural Death

HISTO: 1301812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

OBSERVATIONS

- | | | | |
|---------------|------------|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Moderate |
| * Brain | | Necrosis | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Necrosis | Moderate |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Spleen | White Pulp | Atrophy | Minimal |
| | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Minimal |

PRIMARY CAUSE OF DEATH - Brain Necrosis

CONTRIBUTORY CAUSE OF DEATH - Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 268

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	Vagina		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Hypertrophy	Focal, Minimal
* Bone Marrow		Hypercellularity	Mild
* Kidney		Nephropathy	Chronicprogr, Minimal
* Lung		Infiltration Cellular	Histiocyte, Moderate
	[Infiltration Cellular TGLs = 1 - 6+7]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 2 - 17]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Moderate
* Ovary		Atrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Squamous Metaplasia	Minimal

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 269

TRT#: 2

SEX: Female

DAY ON TEST: 695

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301814

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Cyst | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Mammary Gland | | Adenocarcinoma | |
| | [Adenocarcinoma TGLs = 2 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3 - 11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Uterus | Endometrium | Adenocarcinoma | |
| | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Squamous Metaplasia | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 270

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

OBSERVATIONS

- | | | | |
|-------------------------------|---------------|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| | | Thrombus | |
| * Intestine Large, Cecum | | Liposarcoma | |
| [Liposarcoma TGLs = 3 - 17] | | | |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Granulomatous, Focal, Minimal |
| * Mammary Gland | | Hyperplasia | Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | Follicle | Cyst | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1,2 - 11] | | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Moderate |
| | | Hyperplasia | Epithelial, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 271

TRT#: 2

SEX: Female

DAY ON TEST: 345

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |
| Vagina | | | |

OBSERVATIONS

- | | | | |
|---------------|--------------------------------|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Moderate |
| * Skin | Subcut Tiss | Fibrosarcoma | |
| | [Fibrosarcoma TGLs = 1 - 16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 272

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Clitoral Gland
- * Heart
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Mammary Gland
- * Skin
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Forestomach
- Vagina
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular

OBSERVATIONS

- * Adrenal Medulla
- * Bone Marrow
- * Heart
 - Note: Ectopic parathyroid gland in right atrial wall.
- * Intestine Large, Rectum
- * Kidney
- * Liver
- * Lung
 - [Infiltration Cellular TGLs = 1 - 6+7]
- * Nose
- * Ovary
- * Pituitary Gland
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Bile Duct
- Epithelium
- Granulosa Cell
- Pars Distalis
- C Cell
- Endometrium
- Hyperplasia
- Hypercellularity
- Parasite Metazoan
- Nephropathy
- Hyperplasia
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Hyperplasia
- Polyp Stromal
- Squamous Metaplasia
- Focal, Minimal
- Moderate
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Moderate
- Moderate
- Mild
- Mild
- Mild
- Mild
- Minimal
- Minimal
- Minimal
- Minimal
- Cystic, Moderate
- Atypical, Minimal
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 273

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301818

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | Vagina | |

OBSERVATIONS

- | | | | |
|------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex | | Fibrosis | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Mammary Gland | | Hyperplasia | Moderate |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 274

TRT#: 2

SEX: Female

DAY ON TEST: 596

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Mammary Gland | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

OBSERVATIONS

- | | | | |
|--------------------------|---|-------------------------------|-----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Leukemia Mononuclear | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3 - 18] | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | | Hemorrhage | Marked |
| | [Hemorrhage TGLs = 2,4,5,6 - 17+19+20+21] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Moderate |
| * Pancreas | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1 - 16] | | |
| * Thymus | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 275

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Bone Marrow
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Trachea
- * Urinary Bladder
- Vagina

OBSERVATIONS

- * Intestine Large, Rectum
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 1 - 6+7]
- * Nose
- * Ovary
- * Pituitary Gland
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Carcinoma
- Hyperplasia
- Inflammation
- Squamous Metaplasia
- Chronicprogr, Minimal
- Histiocyte, Minimal
- Moderate
- Mild
- Mild
- Mild
- Mild
- Mild
- Mild
- Cystic, Mild
- Suppurative, Moderate
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 276

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Kidney
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Trachea
- * Urinary Bladder
- Vagina

OBSERVATIONS

- * Bone Marrow
 - * Islets, Pancreatic
 - * Liver
 - * Lung
 - [Infiltration Cellular TGLs = 4 - 6+7]
 - * Nose
 - * Ovary
 - * Pituitary Gland
 - [Adenoma TGLs = 1 - 18]
 - * Spleen
 - * Thymus
 - * Thyroid Gland
 - * Uterus
 - [Polyp Stromal TGLs = 2,3 - 16+17]
- Bile Duct
- Epithelium
- Pars Distalis
- C Cell
- Endometrium

- Hypercellularity
- Moderate
- Hyperplasia
- Mild
- Hyperplasia
- Minimal
- Infiltration Cellular
- Histiocyte, Mild
- Inflammation
- Granulomatous, Focal, Minimal
- Accumulation, Hyaline Droplet
- Moderate
- Atrophy
- Mild
- Adenoma
- Extramedullary Hematopoiesis
- Mild
- Pigment
- Minimal
- Atrophy
- Minimal
- Carcinoma
- Cystic, Marked
- Hyperplasia
- Atypical, Moderate
- Hyperplasia
- Multiple
- Polyp Stromal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 277

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Ovary | * Pancreas | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | Vagina | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1,2 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Squamous Metaplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 278

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | Vagina | |

OBSERVATIONS

- | | | | |
|---------------------------|--|-------------------------------|--------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | | Hyperplasia | Mild |
| | [Fibroadenoma TGLs = 1- 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Granulosa-Theca Tumor Benign | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 279

TRT#: 2

SEX: Female

DAY ON TEST: 673

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular
- Vagina
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland

OBSERVATIONS

- * Adrenal Cortex
 - Angiectasis
 - Degeneration
 - Vacuolization Cytoplasmic
- * Bone Marrow
 - Hypercellularity
- * Heart
 - Cardiomyopathy
- * Kidney
 - Inflammation
 - Nephropathy
- * Liver
 - Bile Duct
 - Hyperplasia
- * Lung
 - Infiltration Cellular TGLs = 3 - 6+7]
 - Infiltration Cellular TGLs = 3 - 6+7]
- * Mammary Gland
 - Fibroadenoma TGLs = 1,2 - 16+17]
 - Galactoceles TGLs = 4 - 18]
 - Fibroadenoma
 - Galactoceles
- * Nose
 - Epithelium
- * Ovary
 - Bursa
 - Cyst
 - [Cyst TGLs = 5 - 14]
- * Pituitary Gland
 - Pars Distalis
- * Spleen
 - Extramedullary Hematopoiesis
- * Thymus
 - Atrophy
- * Uterus
 - Endometrium

- Mild
- Cystic, Minimal
- Minimal
- Marked
- Minimal
- Suppurative, Minimal
- Chronicprogr, Mild
- Minimal
- Histiocyte, Mild
- Multiple
- Moderate
- Mild
- Moderate
- Mild
- Moderate
- Mild
- Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 279

TRT#: 2

SEX: Female

DAY ON TEST: 673

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301824

ORGAN AND ACCOUNTABLE SITE STATUS

Squamous Metaplasia

Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 280

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Glandular
- * Uterus
- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Liver
- * Salivary Glands
- * Thyroid Gland
- Vagina
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Skin
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Stomach, Forestomach
- * Urinary Bladder

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Bone Marrow
 - * Kidney
 - * Lung
 - [Infiltration Cellular TGLs = 4 - 6+7]
 - * Mammary Gland
 - [Fibroadenoma TGLs = 1,2 - 17+18]
 - * Nose
 - * Ovary
 - [Cyst TGLs = 3 - 19]
 - * Pituitary Gland
 - * Spleen
 - * Thymus
- | | | |
|--|-------------------------------|-------------------------------|
| | Hypercellularity | Marked |
| | Nephropathy | Chronicprogr, Minimal |
| | Infiltration Cellular | Histiocyte, Moderate |
| | Inflammation | Granulomatous, Focal, Minimal |
| | Fibroadenoma | Multiple |
| | Hyperplasia | Moderate |
| | Epithelium | Marked |
| | Paraovarian | |
| | Accumulation, Hyaline Droplet | |
| | Cyst | |
| | Hyperplasia | Minimal |
| | Extramedullary Hematopoiesis | Moderate |
| | Pigment | Minimal |
| | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 281

TRT#: 2

SEX: Female

DAY ON TEST: 575

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Mammary Gland
- * Stomach, Glandular
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Parathyroid Gland
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Salivary Glands
- Vagina
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Lymph Node, Mandibular
- * Skin

MISSING

- * Islets, Pancreatic

OBSERVATIONS

- * Adrenal Cortex
[Adenocarcinoma TGLs = 5 - 11]
- * Bone Marrow
- * Kidney
- * Liver
- * Lung
- Lymph Node
Mediastinal
Renal
[Adenocarcinoma TGLs = 9 - 21]
[Adenocarcinoma TGLs = 6 - 20]
- * Lymph Node, Mesenteric
[Adenocarcinoma TGLs = 4 - 9+19]
- Mesentery
[Adenocarcinoma TGLs = 2 - 8+9+10+17]
- * Nose
- * Ovary
[Cyst TGLs = 3 - 18]
- * Pancreas
- Adenocarcinoma
- Hypercellularity
- Adenocarcinoma
- Nephropathy
- Basophilic Focus
- Adenocarcinoma
- Infiltration Cellular
- Adenocarcinoma
- Adenocarcinoma
- Adenocarcinoma
- Adenocarcinoma
- Adenocarcinoma
- Accumulation, Hyaline Droplet
- Adenocarcinoma
- Cyst
- Adenocarcinoma
- Metastatic (Uterus)
- Marked
- Metastatic (Uterus)
- Chronicprogr, Minimal
- Metastatic (Uterus)
- Histiocyte, Minimal
- Metastatic (Uterus)
- Metastatic (Uterus)
- Metastatic (Uterus)
- Metastatic (Uterus)
- Moderate
- Metastatic (Uterus)
- Metastatic (Uterus)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 281

TRT#: 2

SEX: Female

DAY ON TEST: 575

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301826

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Skeletal Muscle		Adenocarcinoma	Metastatic (Uterus)
[Adenocarcinoma TGLs = 10 - 22]			
* Spleen		Adenocarcinoma	Metastatic (Uterus)
	White Pulp	Atrophy	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder		Adenocarcinoma	Metastatic (Uterus)
* Uterus	Endometrium	Adenocarcinoma	
		Squamous Metaplasia	Minimal
[Adenocarcinoma TGLs = 1 - 16]			

PRIMARY CAUSE OF DEATH - Uterus Endometrium Adenocarcinoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 282

TRT#: 2

SEX: Female

DAY ON TEST: 630

DOSE: 0 ppm females

DISP: Natural Death

HISTO: 1301827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Parathyroid Gland
- * Stomach, Glandular
- Vagina
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Skin
- * Trachea
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Liver
- * Lung
 - [Infiltration Cellular TGLs = 3 - 6+7]
- Lymph Node
 - [Hyperplasia TGLs = 2 - 17]
- * Mammary Gland
 - [Fibroadenoma TGLs = 1 - 16]
- * Nose
- * Ovary
- * Pituitary Gland
- * Spleen
- * Thymus
- * Uterus
- Hyperplasia
- Hypercellularity
- Hepatocellular Adenoma
- Infiltration Cellular
- Hyperplasia
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Hyperplasia
- Polyp Stromal
- Squamous Metaplasia
- Focal, Minimal
- Marked
- Histiocyte, Mild
- Plasma Cell, Mild
- Moderate
- Marked
- Minimal
- Moderate
- Minimal
- Mild
- Atypical, Mild
- Cystic, Moderate
- Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 283

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301828

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| Vagina | | | |

OBSERVATIONS

- | | | | |
|-----------------|-------------------------------------|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Angiectasis | Minimal |
| | | Eosinophilic Focus | |
| | | Inflammation | Focal, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | | Hyperplasia | Mild |
| | [Fibroadenoma TGLs = 1,2 - 17+18] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | | Dilation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 284

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	Vagina

MISSING

- * Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Granulomatous, Focal, Minimal
* Mammary Gland		Hyperplasia	Marked
* Nose	Epithelium	Accumulation, Hyaline Droplet	Marked
* Ovary		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Squamous Metaplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 285

TRT#: 2

SEX: Female

DAY ON TEST: 709

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301830

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular
- Vagina

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
- Hepatocyte
- [Mixed Cell Focus TGLs = 6 - 19]
- * Lung
- [Infiltration Cellular TGLs = 4 - 6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1 - 16]
- Mesentery
- [Necrosis TGLs = 3 - 17]
- * Nose
- * Ovary
- [Cyst TGLs = 2 - 14]
- * Pituitary Gland
- [Angiectasis TGLs = 5 - 18]
- * Spleen
- Angiectasis
- Hypertrophy
- Hypercellularity
- Nephropathy
- Basophilic Focus
- Cytoplasmic Alteration
- Eosinophilic Focus
- Mixed Cell Focus
- Infiltration Cellular
- Fibroadenoma
- Necrosis
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Angiectasis
- Extramedullary Hematopoiesis
- Mild
- Focal, Minimal
- Marked
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Moderate
- Minimal
- Marked
- Moderate
- Mild
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 285

TRT#: 2

SEX: Female

DAY ON TEST: 709

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301830

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Minimal

* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

Squamous Metaplasia

Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 286

TRT#: 2

SEX: Female

DAY ON TEST: 368

DOSE: 0 ppm females

DISP: Natural Death

HISTO: 1301831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder
- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Liver
- * Parathyroid Gland
- * Stomach, Glandular
- * Uterus
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland
- Vagina
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Skin
- * Trachea

OBSERVATIONS

- * Bone Marrow
 - * Kidney
 - * Lung
 - [Infiltration Cellular TGLs = 2 - 6+7]
 - * Mammary Gland
 - [Fibroadenoma TGLs = 1 - 16]
 - * Nose
 - * Ovary
 - * Pituitary Gland
 - * Spleen
 - * Thymus
- | | | |
|---------------|-------------------------------|-----------------------|
| | Hypercellularity | Marked |
| | Nephropathy | Chronicprogr, Minimal |
| | Infiltration Cellular | Histiocyte, Mild |
| | Fibroadenoma | |
| Epithelium | Accumulation, Hyaline Droplet | Mild |
| | Atrophy | Moderate |
| Pars Distalis | Hyperplasia | Mild |
| White Pulp | Atrophy | Moderate |
| | Extramedullary Hematopoiesis | Moderate |
| | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 287

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

OBSERVATIONS

- | | | | |
|--|-------------------|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| Blood Vessel | | Mineral | Minimal |
| Note: Gastric arteries are mineralized. | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Infarct | Minimal |
| | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| [Infiltration Cellular TGLs = 1 - 6+7] | | | |
| * Mammary Gland | | Fibroadenoma | |
| | | Hyperplasia | Minimal |
| [Fibroadenoma TGLs = 2 - 17] | | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | Bilateral, C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 288

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301833

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus	Vagina		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 1 - 6+7]		
* Mammary Gland		Hyperplasia	Mild
* Nose	Epithelium	Accumulation, Hyaline Droplet	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 289

TRT#: 2

SEX: Female

DAY ON TEST: 526

DOSE: 0 ppm females

DISP: Natural Death

HISTO: 1301834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | Vagina | |

MISSING

- * Clitoral Gland

OBSERVATIONS

- | | | | |
|-----------------|--------------------------------|-------------------------------|------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Ovary | | Atrophy | Mild |
| * Spleen | White Pulp | Atrophy | Marked |
| | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Moderate |
| * Uterus | | Squamous Metaplasia | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 290

TRT#: 2

SEX: Female

DAY ON TEST: 603

DOSE: 0 ppm females

DISP: Natural Death

HISTO: 1301835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Necrosis | Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | Hyperplasia | Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Ovary | Follicle | Cyst | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 291

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301836

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- Vagina
- * Bone
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular
- * Brain
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Trachea

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Eye
- * Kidney
- * Liver
- [Clear Cell Focus TGLs = 2 - 19]
- * Lung
- [Infiltration Cellular TGLs = 3 - 6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1 - 18]
- * Nose
- * Ovary
- * Pituitary Gland
- [Adenoma TGLs = 4 - 11]
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Retina
- Epithelium
- Pars Distalis
- C Cell
- Endometrium
- Degeneration
- Hypercellularity
- Degeneration
- Nephropathy
- Clear Cell Focus
- Eosinophilic Focus
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Hyperplasia
- Hyperplasia
- Squamous Metaplasia
- Cystic, Minimal
- Mild
- Minimal
- Chronicprogr, Mild
- Histiocyte, Moderate
- Moderate
- Moderate
- Mild
- Mild
- Mild
- Cystic, Minimal
- Atypical, Minimal
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 292

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Esophagus
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Trachea
- Blood Vessel
- * Harderian Gland
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Urinary Bladder
- * Bone
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- Vagina
- * Brain
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular

OBSERVATIONS

- * Adrenal Cortex
 - Angiectasis
 - Degeneration
 - Hypertrophy
 - Hypercellularity
 - Inflammation
 - Degeneration
 - Cardiomyopathy
 - Parasite Metazoan
 - Nephropathy
 - Cholangioma
- * Bone Marrow
 - Moderate
 - Cystic, Minimal
 - Focal, Minimal
 - Moderate
- * Clitoral Gland
 - Chronic Active, Minimal
- * Eye
 - Retina
 - Degeneration
 - Mild
- * Heart
 - Minimal
- * Intestine Large, Colon
 - Parasite Metazoan
- * Kidney
 - Nephropathy
 - Chronicprogr, Minimal
- * Liver
 - [Cholangioma TGLs = 4 - 18]
- * Lung
 - [Infiltration Cellular TGLs = 5- 6+7]
 - Infiltration Cellular
 - Histiocyte, Mild
- * Mammary Gland
 - Hyperplasia
 - Minimal
- * Nose
 - Epithelium
 - Accumulation, Hyaline Droplet
 - Marked
- * Ovary
 - Oviduct
 - Inflammation
 - Chronic Active, Moderate
- * Pituitary Gland
 - Pars Distalis
 - Adenoma
- * Spleen
 - Extramedullary Hematopoiesis
 - Mild
 - Pigment
 - Minimal
- * Thymus
 - Atrophy
 - Moderate
- * Thyroid Gland
 - C Cell
 - Hyperplasia
 - Minimal
- * Uterus
 - Dilation
 - Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 292

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301837

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLs = 1,2,3 - 14Y+14Z+16+17]

Inflammation

Squamous Metaplasia

Suppurative, Marked

Marked

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 293

TRT#: 2

SEX: Female

DAY ON TEST: 564

DOSE: 0 ppm females

DISP: Natural Death

HISTO: 1301838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|---------------|---|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 4 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Mild |
| | Follicle | Cyst | |
| | | Pigment | Moderate |
| | [Pigment TGLs = 1 - 14] | | |
| * Spleen | | Extramedullary Hematopoiesis | Marked |
| | | Pigment | Minimal |
| | [Extramedullary Hematopoiesis TGLs = 2 - 8] | | |
| * Thymus | | Atrophy | Minimal |
| * Uterus | Myometrium | Cyst | |
| | | Squamous Metaplasia | Minimal |
| | Note: Non-squamous cyst. | | |
| | [Cyst TGLs = 5 - 17] | | |
| Vagina | | Sarcoma | |
| | [Sarcoma TGLs = 3 - 16] | | |

PRIMARY CAUSE OF DEATH - Vagina Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 294

TRT#: 2

SEX: Female

DAY ON TEST: 289

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Liver | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | Vagina | | |

OBSERVATIONS

- | | | | |
|--------------------------------|------------|-------------------------------|---------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| Lymph Node | Axillary | Hyperplasia | Plasma Cell, Marked |
| [Hyperplasia TGLs = 2 - 17] | | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1 - 16] | | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| | | Inflammation | Acute, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Mild |
| * Uterus | | Hemangioma | |
| [Hemangioma TGLs = 3 - 18] | | | |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 295

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301840

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	Vagina

OBSERVATIONS

* Bone Marrow		Hypercellularity	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 1 - 6+7]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Minimal
* Ovary		Atrophy	Moderate
	Granulosa Cell	Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Uterus	Endometrium	Adenocarcinoma	
	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 296

TRT#: 2

SEX: Female

DAY ON TEST: 503

DOSE: 0 ppm females

DISP: Natural Death

HISTO: 1301841

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | Vagina | |

OBSERVATIONS

- | | | | |
|-----------------|--|-------------------------------|-----------------------|
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Necrosis | Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Ovary | Follicle | Cyst | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | | Angiectasis | Minimal |
| | | Dilation | Marked |
| | | Inflammation | Suppurative, Marked |
| | [Dilation TGLs = 1 - 14] | | |

PRIMARY CAUSE OF DEATH - Uterus Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 297

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301842

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | Vagina | |

OBSERVATIONS

- | | | | |
|-------------------|---------------|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Squamous Metaplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 298

TRT#: 2

SEX: Female

DAY ON TEST: 453

DOSE: 0 ppm females

DISP: Natural Death

HISTO: 1301843

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Liver | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------|-------------------------------|----------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2 - 11] | | |
| * Spleen | White Pulp | Atrophy | Mild |
| | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Uterus | | Squamous Metaplasia | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 299

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm females

DISP: Terminal Sacrifice

HISTO: 1301844

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
Vagina			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Eye	Retina	Degeneration	Mild
* Kidney		Nephropathy	Chronicprogr, Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 3 - 6+7]		
* Mammary Gland		Hyperplasia	Mild
	[Hyperplasia TGLs = 1 - 17]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Moderate
* Ovary		Atrophy	Mild
	Follicle	Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 18]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Cervix	Hyperplasia	Atypical, Mild
		Squamous Metaplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 300

TRT#: 2

SEX: Female

DAY ON TEST: 634

DOSE: 0 ppm females

DISP: Moribund Sacrifice

HISTO: 1301845

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------|-------------------------------|-----------------------|
| * Adrenal Cortex | | Angiectasis | Minimal |
| | | Degeneration | Cystic, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Moderate |
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| Lymph Node | Lumbar | Hyperplasia | Plasma Cell, Mild |
| | Axillary | Hyperplasia | Plasma Cell, Mild |
| | [Hyperplasia TGLs = 2 - 17] | | |
| | [Hyperplasia TGLs = 3 - 18] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | Hyperplasia | Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Polyp Stromal | |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 301

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301846

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | Vagina | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|----------------------|--|-------------------------------|-----------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Moderate |
| | Follicle | Cyst | |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Inflammation | Suppurative, Minimal |
| | | Polyp Stromal | |
| | | Squamous Metaplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 302

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301847

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Skin
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Stomach, Forestomach
- Vagina
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Liver
- * Salivary Glands
- * Trachea

OBSERVATIONS

- * Adrenal Medulla
- * Bone Marrow
- * Heart
- * Kidney
- * Lung
 - [Infiltration Cellular TGLs = 2 - 6+7]
- * Mammary Gland
 - [Fibroadenoma TGLs = 1 - 17]
- * Nose
- * Ovary
- * Pancreas
- * Pituitary Gland
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Epithelium
- Acinus
- Pars Distalis
- C Cell
- Endometrium
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Hyperplasia
- Squamous Metaplasia
- Focal, Minimal
- Moderate
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Moderate
- Mild
- Minimal
- Minimal
- Mild
- Mild
- Mild
- Mild
- Mild
- Mild
- Cystic, Minimal
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301848

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Pancreas | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | Vagina |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 4 - 6+7] | | |
| * Mammary Gland | | Adenocarcinoma | |
| | [Adenocarcinoma TGLs = 2 - 17] | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Marked |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Polyp Stromal | |
| | | Squamous Metaplasia | Minimal |
| | | Thrombus | |
| | [Thrombus TGLs = 3 - 14Z] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 304

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301849

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| Vagina | | | |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| | | Degeneration | Cystic, Minimal |
| | | Hypertrophy | Focal, Mild |
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Uterus | Endometrium | Adenocarcinoma | |
| | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Squamous Metaplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 642

DOSE: 2500 ppm females

DISP: Natural Death

HISTO: 1301850

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|-----------------|--|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Adenocarcinoma | Metastatic (Pancreas) |
| * Lung | | Adenocarcinoma | Metastatic (Pancreas) |
| | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Acute, Minimal |
| | [Infiltration Cellular TGLs = 4 - 6+7] | | |
| Lymph Node | Pancreatic | Adenocarcinoma | Metastatic (Pancreas) |
| | [Adenocarcinoma TGLs = 3 - 18] | | |
| Mesentery | | Adenocarcinoma | Metastatic (Pancreas) |
| | Note: Metastatic adenocarcinoma implanted on many serosal surfaces (intestinal). | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| | | Inflammation | Suppurative, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Ovary | | Adenocarcinoma | Metastatic (Pancreas) |
| | | Atrophy | Moderate |
| | [Adenocarcinoma TGLs = 1 - 16] | | |
| * Pancreas | Acinus | Adenocarcinoma | |
| | [Adenocarcinoma TGLs = 5 - 19] | | |
| Skeletal Muscle | | Adenocarcinoma | Metastatic (Pancreas) |
| * Spleen | | Adenocarcinoma | Metastatic (Pancreas) |
| | | Extramedullary Hematopoiesis | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 642

DOSE: 2500 ppm females

DISP: Natural Death

HISTO: 1301850

ORGAN AND ACCOUNTABLE SITE STATUS

Pigment

Mild

[Adenocarcinoma TGLs = 2 - 17]

Adenocarcinoma

Metastatic (Pancreas)

* Stomach, Forestomach

Adenocarcinoma

Metastatic (Pancreas)

* Stomach, Glandular

Atrophy

Marked

* Thymus

Adenocarcinoma

Metastatic (Pancreas)

* Uterus

PRIMARY CAUSE OF DEATH

- Pancreas Acinus Adenocarcinoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 596

DOSE: 2500 ppm females

DISP: Moribund Sacrifice

HISTO: 1301851

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|-----------------|---|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 3 - 6+7] | | |
| Lymph Node | Lumbar | Hyperplasia | Plasma Cell, Moderate |
| | [Hyperplasia TGLs = 4 - 17] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Ovary | | Atrophy | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Marked |
| | [Extramedullary Hematopoiesis TGLs = 2 - 8] | | |
| * Thymus | | Atrophy | Mild |
| * Uterus | | Polyp Stromal | |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 307

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301852

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---------------------------|--|-------------------------------|--------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Mild |
| | Germinal Epith | Cyst | |
| | [Cyst TGLs = 4 - 14] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| | [Hyperplasia TGLs = 3 - 11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Squamous Metaplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 308

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Bone Marrow
- * Brain
- * Clitoral Gland
- * Esophagus
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Trachea
- * Urinary Bladder
- Vagina

OBSERVATIONS

- * Eye
 - Atrophy Mild
 - Retina Detachment Marked
 - Note: Lens absent (likely ruptured cornea due to trauma).
 - [Atrophy TGLs = 1 - 13]
- * Kidney
 - Nephropathy Chronicprogr, Minimal
- * Liver
 - Bile Duct Hyperplasia Minimal
- * Lung
 - Infiltration Cellular TGLs = 2 - 6+7 Histiocyte, Mild
- * Nose
 - Epithelium Accumulation, Hyaline Droplet Mild
- * Ovary
 - Follicle Cyst
- * Pituitary Gland
 - Pars Distalis Hyperplasia Mild
- * Spleen
 - Extramedullary Hematopoiesis Minimal
 - Pigment Minimal
- * Thymus
 - Atrophy Marked
- * Thyroid Gland
 - C Cell Hyperplasia Marked
- * Uterus
 - Endometrium Hyperplasia Cystic, Mild
 - Hyperplasia Atypical, Mild
 - Inflammation Suppurative, Mild
 - Squamous Metaplasia Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 309

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301854

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Harderian Gland
- * Heart
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Islets, Pancreatic
- * Liver
- * Ovary
- * Parathyroid Gland
- * Skin
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Stomach, Glandular
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Trachea

OBSERVATIONS

- * Clitoral Gland
 - Hyperplasia
 - Squamous Cell Papilloma
- * Kidney
 - Nephropathy
- * Lung
 - Infiltration Cellular TGLs = 3 - 6+7
- * Mammary Gland
 - Fibroadenoma
 - Hyperplasia
- * Nose
 - Epithelium
- * Pancreas
 - Acinus
- * Spleen
 - Accumulation, Hyaline Droplet
 - Atrophy
 - Extramedullary Hematopoiesis
 - Pigment
- * Thymus
 - Atrophy
- * Thyroid Gland
 - C Cell
 - Adenoma
- * Uterus
 - Neural Crest Tumor
- Note: TGL-1 also extends into B14Y and especially 14Z.
 - [Neural Crest Tumor TGLs = 1,2 - 14Y+14Z+16]
- Vagina
 - Hypertrophy

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 310

TRT#: 4

SEX: Female

DAY ON TEST: 584

DOSE: 2500 ppm females

DISP: Moribund Sacrifice

HISTO: 1301855

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Liver
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Trachea
- * Vagina

OBSERVATIONS

- * Bone Marrow: Hypercellularity, Mild
- * Brain: Necrosis, Moderate
- * Heart: Cardiomyopathy, Minimal
- * Kidney: Pelvis, Inflammation, Chronic Active, Minimal; Nephropathy, Chronicprogr, Minimal; Infiltration Cellular, Histiocyte, Moderate
- * Lung: [Infiltration Cellular TGLs = 1 - 6+7]
- * Nose: Epithelium, Accumulation, Hyaline Droplet, Marked
- * Ovary: Atrophy, Mild
- * Pituitary Gland: Pars Distalis, Hyperplasia, Mild
- * Spleen: White Pulp, Atrophy, Moderate; Pigment, Moderate
- * Thymus: Atrophy, Moderate
- * Thyroid Gland: C Cell, Adenoma
- * Urinary Bladder: Inflammation, Suppurative, Moderate
- * Uterus: Endometrium, Hyperplasia, Cystic, Moderate; Squamous Metaplasia, Moderate

PRIMARY CAUSE OF DEATH - Brain Necrosis
 CONTRIBUTORY CAUSE OF DEATH - Urinary Bladder Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 311

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301856

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | Vagina | |

OBSERVATIONS

- | | | | |
|--|---------------|-------------------------------|-----------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Cyst | |
| | Bile Duct | Hyperplasia | Mild |
| Note: Multilocular biliary cyst.
[Cyst TGLs = 7 - 20] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| [Infiltration Cellular TGLs = 6 - 6+7] | | | |
| Lymph Node | Lumbar | Hemorrhage | Mild |
| [Hemorrhage TGLs = 8 - 21] | | | |
| * Mammary Gland | | Adenocarcinoma | |
| | | Fibroadenoma | |
| Note: TGL-1 also present in B15.
[Adenocarcinoma TGLs = 2 - 17]
[Fibroadenoma TGLs = 1 - 16] | | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| [Hyperplasia TGLs = 5 - 19] | | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 311

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301856

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Hyperplasia	Atypical, Minimal
		Polyp Stromal	Multiple
		Squamous Metaplasia	Minimal
		Thrombus	

Note: Well-differentiated glands immediately beneath serosa, but no mitotic figures or anaplasia to suggest carcinoma.

[Hyperplasia TGLs = 3 - 18]

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 312

TRT#: 4

SEX: Female

DAY ON TEST: 673

DOSE: 2500 ppm females

DISP: Natural Death

HISTO: 1301857

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|-----------------|--|-------------------------------|------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | Pelvis | Dilation | Minimal |
| | [Dilation TGLs = 3 - 8] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Hyperplasia | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Spleen | White Pulp | Atrophy | Moderate |
| | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Marked |
| * Uterus | | Sarcoma | |
| | [Sarcoma TGLs = 1 - 16] | | |

PRIMARY CAUSE OF DEATH

- Uterus Sarcoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 313

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301858

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Bone Marrow
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thyroid Gland
- * Trachea
- * Urinary Bladder
- Vagina

OBSERVATIONS

- * Kidney Nephropathy Chronicprogr, Minimal
- * Liver Hepatocellular Adenoma
- [Hepatocellular Adenoma TGLs = 1 - 17]
- * Lung Infiltration Cellular Histiocyte, Mild
- [Infiltration Cellular TGLs = 3 - 6+7]
- * Mammary Gland Fibroadenoma
- [Fibroadenoma TGLs = 2 - 18]
- * Nose Epithelium Accumulation, Hyaline Droplet Moderate
- * Ovary Atrophy Mild
- * Pituitary Gland Pars Distalis Hyperplasia Mild
- * Spleen Extramedullary Hematopoiesis Mild
- Pigment Mild
- * Thymus Atrophy Mild
- * Uterus Squamous Metaplasia Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 314

TRT#: 4

SEX: Female

DAY ON TEST: 709

DOSE: 2500 ppm females

DISP: Moribund Sacrifice

HISTO: 1301859

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Pancreas
- * Skin
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Stomach, Forestomach
- Vagina
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Stomach, Glandular
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Ovary
- * Salivary Glands
- * Trachea

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Islets, Pancreatic
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 3 - 6+7]
- * Lymph Node, Mandibular
- * Mammary Gland
- Duct
- Note: Adenocarcinoma also present in B15.
- [Adenocarcinoma TGLs = 1 - 16]
- [Fibroadenoma TGLs = 2 - 17]
- * Nose
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Epithelium
- C Cell
- Angiectasis
- Hypercellularity
- Cardiomyopathy
- Metaplasia
- Nephropathy
- Basophilic Focus
- Infiltration Cellular
- Atrophy
- Adenocarcinoma
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Extramedullary Hematopoiesis
- Atrophy
- Hyperplasia
- Polyp Stromal
- Mild
- Marked
- Minimal
- Hepatocyte, Mild
- Chronicprogr, Minimal
- Histiocyte, Mild
- Moderate
- Mild
- Moderate
- Marked
- Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Duct Adenocarcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 315

TRT#: 4

SEX: Female

DAY ON TEST: 568

DOSE: 2500 ppm females

DISP: Natural Death

HISTO: 1301860

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

OBSERVATIONS

- | | | | |
|-----------------|---|-------------------------------|------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Liver | | Hepatodiaphragmatic Nodule | |
| | Note: Two hepatodiaphragmatic nodules present. | | |
| | [Hepatodiaphragmatic Nodule TGLs = 2,3 - 17+18] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 4 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Ovary | | Atrophy | Mild |
| * Spleen | White Pulp | Atrophy | Marked |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301861

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Small, Duodenum
- * Islets, Pancreatic
- * Kidney
- * Pancreas
- * Parathyroid Gland
- * Skin
- * Stomach, Forestomach
- * Urinary Bladder
- * Vagina
- * Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Stomach, Glandular
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Trachea

OBSERVATIONS

- * Intestine Large, Rectum
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 1 - 6+7]
- * Mammary Gland
- * Nose
- * Ovary
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Bile Duct
- Epithelium
- Bilateral, C Cell
- Endometrium
- Parasite Metazoan
- Basophilic Focus
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Hyperplasia
- Accumulation, Hyaline Droplet
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Hyperplasia
- Hyperplasia
- Squamous Metaplasia
- Minimal
- Histiocyte, Minimal
- Minimal
- Moderate
- Mild
- Mild
- Minimal
- Mild
- Cystic, Moderate
- Atypical, Minimal
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 317

TRT#: 4

SEX: Female

DAY ON TEST: 546

DOSE: 2500 ppm females

DISP: Natural Death

HISTO: 1301862

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Heart
- * Kidney
- * Parathyroid Gland
- * Stomach, Forestomach
- * Urinary Bladder
- * Adrenal Medulla
- * Esophagus
- * Intestine Large, Colon
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Stomach, Glandular
- * Uterus
- Blood Vessel
- * Eye
- * Intestine Large, Rectum
- * Ovary
- * Salivary Glands
- * Thyroid Gland
- Vagina
- * Bone
- * Harderian Gland
- * Islets, Pancreatic
- * Pancreas
- * Skin
- * Trachea

MISSING

- * Clitoral Gland

AUTO PRECLUDES DIAG.

- * Intestine Large, Cecum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric

OBSERVATIONS

- * Bone Marrow
- * Liver
- [Hepatocellular Adenoma TGLs = 2 - 12]
- * Lung
- [Infiltration Cellular TGLs = 3 - 6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1 - 16]
- * Nose
- * Spleen
- * Thymus
- Epithelium
- White Pulp
- Hypercellularity
- Extramedullary Hematopoiesis
- Hepatocellular Adenoma
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Extramedullary Hematopoiesis
- Atrophy
- Marked
- Minimal
- Histiocyte, Moderate
- Mild
- Mild
- Moderate
- Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 318

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301863

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Mammary Gland
- * Pancreas
- * Skin
- * Stomach, Forestomach
- * Urinary Bladder
- Vagina
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Trachea

OBSERVATIONS

- * Kidney Nephropathy Chronicprogr, Minimal
- * Liver Clear Cell Focus
- Bile Duct Hyperplasia Minimal
- * Lung Infiltration Cellular [Infiltration Cellular TGLs = 2 - 6+7] Histiocyte, Mild
- * Nose Epithelium Accumulation, Hyaline Droplet Moderate
- * Ovary Atrophy Moderate
- * Pituitary Gland Pars Distalis Adenoma
- * Spleen [Adenoma TGLs = 1 - 16] Extramedullary Hematopoiesis Mild
- Pigment Mild
- * Thymus Atrophy Mild
- * Thyroid Gland C Cell Hyperplasia Moderate
- * Uterus Squamous Metaplasia Minimal

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 319

TRT#: 4

SEX: Female

DAY ON TEST: 494

DOSE: 2500 ppm females

DISP: Natural Death

HISTO: 1301864

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Liver
- * Parathyroid Gland
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Stomach, Glandular
- * Uterus
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Thyroid Gland
- Vagina
- * Bone Marrow
- * Harderian Gland
- * Intestine Small, Duodenum
- * Kidney
- * Pancreas
- * Skin
- * Trachea

OBSERVATIONS

- * Adrenal Cortex
- * Brain
- * Heart
- * Lung
 - [Infiltration Cellular TGLs = 1 - 6+7]
- * Mammary Gland
- * Nose
- * Ovary
- * Spleen
- * Thymus
- Degeneration
- Necrosis
- Cardiomyopathy
- Infiltration Cellular
- Hyperplasia
- Accumulation, Hyaline Droplet
- Cyst
- Atrophy
- Pigment
- Atrophy
- Cystic, Minimal
- Moderate
- Minimal
- Histiocyte, Moderate
- Minimal
- Mild
- Moderate
- Moderate
- Moderate

PRIMARY CAUSE OF DEATH - Brain Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 320

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301865

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	Vagina

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 2 - 6+7]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Moderate
	Sinus	Metaplasia	Squamous, Moderate
* Ovary		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1 - 11]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	Bilateral, C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Hyperplasia	Atypical, Moderate
		Inflammation	Suppurative, Minimal
		Polyp Stromal	
		Squamous Metaplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 321

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular
- Vagina
- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder

OBSERVATIONS

- * Bone Marrow
- * Kidney
- * Liver
- Bile Duct
- [Hepatocellular Adenoma TGLs = 6 - 18]
- * Lung
- [Infiltration Cellular TGLs = 5 - 6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1,2 - 16+17]
- * Nose
- * Ovary
- * Pituitary Gland
- [Adenoma TGLs = 4 - 11]
- * Spleen
- * Thymus
- * Uterus
- Epithelium
- Pars Distalis
- Hypercellularity
- Nephropathy
- Hepatocellular Adenoma
- Hyperplasia
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Polyp Stromal
- Squamous Metaplasia
- Moderate
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Moderate
- Multiple
- Marked
- Mild
- Mild
- Minimal
- Mild
- Mild

[Polyp Stromal TGLs = 3 - 14Y]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 670

DOSE: 2500 ppm females

DISP: Natural Death

HISTO: 1301867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Thyroid Gland
- Vagina
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Pancreas
- * Skin
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Kidney
- * Parathyroid Gland
- * Stomach, Forestomach
- * Urinary Bladder
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Stomach, Glandular
- * Uterus

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Liver
- Bile Duct
- * Lung
- [Infiltration Cellular TGLs = 2 - 6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1 - 16]
- * Nose
- * Ovary
- * Spleen
- * Thymus
- Angiectasis
- Hypercellularity
- Parasite Metazoan
- Hyperplasia
- Basophilic Focus
- Cyst
- Necrosis
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Cyst
- Cyst
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Moderate
- Moderate
- Mild
- Minimal
- Histiocyte, Mild
- Minimal
- Marked
- Minimal
- Moderate
- Minimal
- Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 323

TRT#: 4

SEX: Female

DAY ON TEST: 638

DOSE: 2500 ppm females

DISP: Moribund Sacrifice

HISTO: 1301868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Forestomach
- * Urinary Bladder
- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Stomach, Glandular
- Vagina
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Thyroid Gland
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Skin
- * Trachea

MISSING

- * Thymus

OBSERVATIONS

- * Bone Marrow
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2 - 6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1 - 16]
- * Nose
- * Ovary
- * Spleen
- * Uterus
- Hypercellularity
- Nephropathy
- Eosinophilic Focus
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Squamous Metaplasia
- Moderate
- Chronicprogr, Minimal
- Histiocyte, Marked
- Granulomatous, Focal, Minimal
- Moderate
- Mild
- Mild
- Minimal
- Cystic, Minimal
- Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 324

TRT#: 4

SEX: Female

DAY ON TEST: 661

DOSE: 2500 ppm females

DISP: Moribund Sacrifice

HISTO: 1301869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Kidney
- * Mammary Gland
- * Skin
- * Urinary Bladder
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Ileum
- * Liver
- * Pancreas
- * Stomach, Forestomach
- Vagina
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Trachea

OBSERVATIONS

- * Adrenal Medulla
- * Intestine Large, Rectum
- * Lung
 - [Infiltration Cellular TGLs = 2 - 6+7]
- * Nose
- * Ovary
- * Pituitary Gland
 - [Adenoma TGLs = 1 - 11]
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Hyperplasia
- Parasite Metazoan
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Pigment
- Atrophy
- Hyperplasia
- Hyperplasia
- Focal, Minimal
- Histiocyte, Moderate
- Moderate
- Moderate
- Mild
- Minimal
- Minimal
- Cystic, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 325

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 2500 ppm females

DISP: Moribund Sacrifice

HISTO: 1301870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	Vagina		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Mild
		Pheochromocytoma Benign	
* Bone Marrow		Hypercellularity	Marked
* Eye	Retina	Degeneration	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Pelvis	Inflammation	Chronic Active, Marked
		Nephropathy	Chronicprogr, Minimal
	[Inflammation TGLs = 2 - 17]		
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 10 - 6+7]		
Lymph Node	Pancreatic	Adenocarcinoma	Metastatic (Uterus)
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 9 - 24]		
Mesentery		Adenocarcinoma	Metastatic (Uterus)
	[Adenocarcinoma TGLs = 4,5,6,7,8 - 19+20+21+22+23]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Ovary		Atrophy	Moderate
	Follicle	Cyst	
* Pancreas		Adenocarcinoma	Metastatic (Uterus)
	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 325

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 2500 ppm females

DISP: Moribund Sacrifice

HISTO: 1301870

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	White Pulp	Atrophy	Moderate
		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
		Ulcer	Mild
* Thymus		Atrophy	Marked
* Urinary Bladder		Adenocarcinoma	Metastatic (Uterus)
* Uterus	Cervix	Adenocarcinoma	

Note: Some cervix/vagina is present in B16 as likely site of origin.

[Adenocarcinoma TGLs = 3- 16+18]

PRIMARY CAUSE OF DEATH

- Uterus Cervix Adenocarcinoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301871

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Stomach, Glandular
- Vagina
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Salivary Glands
- * Thyroid Gland
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Skin
- * Trachea

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
- * Lung
- * Nose
- * Ovary
- * Spleen
- * Thymus
- * Uterus
- Bile Duct
- Alveolus, Epithelium
- [Infiltration Cellular TGLs = 1 - 6+7]
- Epithelium
- Endometrium
- Degeneration
- Hypercellularity
- Nephropathy
- Clear Cell Focus
- Cyst
- Hyperplasia
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenomyosis
- Angiectasis
- Hyperplasia
- Hyperplasia
- Polyp Stromal
- Squamous Metaplasia
- Cystic, Minimal
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Marked
- Mild
- Mild
- Minimal
- Mild
- Minimal
- Minimal
- Cystic, Mild
- Atypical, Minimal
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301872

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Trachea
- * Urinary Bladder
- Vagina

OBSERVATIONS

- * Bone Marrow: Hypercellularity, Mild
- * Kidney: Nephropathy, Chronicprogr, Minimal
- * Liver: Clear Cell Focus
- * Lung: Bile Duct, Hyperplasia, Minimal; Infiltration Cellular, TGLs = 1 - 6+7, Infiltration Cellular, TGLs = 2 - 16, Histiocyte, Moderate
- * Nose: Accumulation, Hyaline Droplet, Mild
- * Ovary: Atrophy, Mild
- * Pituitary Gland: Pars Distalis, Adenoma, Note: Poor section - shattered - borderline non-diagnostic. Best available supplied.
- * Spleen: Extramedullary Hematopoiesis, Minimal; Pigment, Minimal
- * Thymus: Atrophy, Mild
- * Thyroid Gland: C Cell, Hyperplasia, Moderate
- * Uterus: Endometrium, Hyperplasia, Cystic, Minimal; Squamous Metaplasia, Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 328

TRT#: 4

SEX: Female

DAY ON TEST: 650

DOSE: 2500 ppm females

DISP: Natural Death

HISTO: 1301873

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|----------------------|--|-------------------------------|------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Moderate |
| * Bone Marrow | | Hypercellularity | Marked |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Mild |
| | Follicle | Cyst | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | | Dilation | Moderate |
| | | Hemorrhage | Minimal |
| | | Squamous Metaplasia | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 329

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301874

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- Vagina
- * Bone
- * Eye
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Trachea

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Intestine Large, Rectum
- * Kidney
- * Liver
- [Cyst TGLs = 2 - 17]
- * Lung
- * Mammary Gland
- [Fibroadenoma TGLs = 1 - 16]
- * Nose
- * Ovary
- * Pituitary Gland
- [Adenoma TGLs = 3 - 11]
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Bile Duct
- Epithelium
- Pars Distalis
- C Cell
- Endometrium
- Degeneration
- Hypercellularity
- Parasite Metazoan
- Nephropathy
- Basophilic Focus
- Cyst
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Hyperplasia
- Squamous Metaplasia
- Cystic, Mild
- Mild
- Chronicprogr, Minimal
- Histiocyte, Minimal
- Moderate
- Mild
- Minimal
- Mild
- Minimal
- Marked
- Cystic, Minimal
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 330

TRT#: 4

SEX: Female

DAY ON TEST: 529

DOSE: 2500 ppm females

DISP: Moribund Sacrifice

HISTO: 1301875

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| Vagina | | | |

OBSERVATIONS

- | | | | |
|-------------------|---|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | [Infiltration Cellular TGLs = 3 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 17] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Ovary | | Atrophy | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Squamous Cell Carcinoma | |
| | [Squamous Cell Carcinoma TGLs = 2 - 16] | | |
| * Thyroid Gland | C Cell | Adenoma | |
| * Urinary Bladder | Urothelium | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Note: Eosinophils present. | | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Polyp Stromal | Cystic |
| | | Squamous Metaplasia | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 331

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301876

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | Vagina | | |

OBSERVATIONS

- | | | | |
|---------------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypocellularity | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Moderate |
| | Follicle | Cyst | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2 - 11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Hyperplasia | Atypical, Mild |
| | | Polyp Stromal | |
| | | Squamous Metaplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 332

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301877

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- Vagina
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Trachea

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
 - [Infiltration Cellular TGLs = 2 - 6+7]
- * Mammary Gland
 - [Fibroadenoma TGLs = 1 - 16]
- * Nose
- * Ovary
- * Pituitary Gland
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Bile Duct
- Epithelium
- Pars Intermed
- C Cell
- Endometrium
- Degeneration
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Eosinophilic Focus
- Hyperplasia
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Hyperplasia
- Hyperplasia
- Squamous Metaplasia
- Cystic, Minimal
- Minimal
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Mild
- Mild
- Mild
- Mild
- Mild
- Minimal
- Mild
- Cystic, Moderate
- Atypical, Minimal
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 333

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301878

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | Vagina | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hepatodiaphragmatic Nodule | |
| | [Hepatodiaphragmatic Nodule TGLs = 2 - 18] | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 4 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 3 - 17] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5 - 11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Hyperplasia | Atypical, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 333

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301878

ORGAN AND ACCOUNTABLE SITE STATUS

Cervix

Neural Crest Tumor

Polyp Stromal

Squamous Metaplasia

Mild

[Neural Crest Tumor TGLs = 1 - 16]

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 334

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301879

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Pancreas | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Hyperplasia | Atypical, Mild |
| | | Polyp Stromal | |
| | | Squamous Metaplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 335

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301880

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
Vagina			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 2 - 6+7]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 16]	Hyperplasia	Mild
* Nose	Epithelium	Accumulation, Hyaline Droplet	Marked
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 336

TRT#: 4

SEX: Female

DAY ON TEST: 375

DOSE: 2500 ppm females

DISP: Moribund Sacrifice

HISTO: 1301881

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | Vagina | | |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 337

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301882

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Stomach, Glandular
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Salivary Glands
- * Thyroid Gland
- * Bone
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Skin
- * Trachea
- * Brain
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Forestomach
- Vagina

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Eye
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 4 - 6+7]
- Mesentery
- * Nose
- * Ovary
- [Granulosa Cell Tumor Malignant TGLs = 2 - 16]
- Peritoneum
- * Spleen
- * Thymus
- * Urinary Bladder
- * Uterus
- Angiectasis
- Hypercellularity
- Cataract
- Nephropathy
- Hyperplasia
- Hypertrophy
- Granulosa Cell Tumor Malignant
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Atrophy
- Granulosa Cell Tumor Malignant
- Inflammation
- Extramedullary Hematopoiesis
- Atrophy
- Inflammation
- Dilation
- Inflammation
- Squamous Metaplasia
- Moderate
- Marked
- Minimal
- Chronicprogr, Minimal
- Minimal
- Minimal
- Metastatic (Ovary)
- Moderate
- Histiocyte, Moderate
- Chronic Active, Moderate
- Marked
- Moderate
- Chronic Active, Mild
- Moderate
- Marked
- Chronic Active, Minimal
- Marked
- Suppurative, Mild
- Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 337

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301882

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilation TGLs = 3 - 17]

Ulcer

Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 338

TRT#: 4

SEX: Female

DAY ON TEST: 289

DOSE: 2500 ppm females

DISP: Moribund Sacrifice

HISTO: 1301883

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | Vagina | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-----------------|---|-------------------------------|----------------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Necrosis | Mild |
| * Lung | | Adenocarcinoma | Metastatic (Mammary Gland) |
| | | Infiltration Cellular | Histiocyte, Mild |
| | [Adenocarcinoma TGLs = 3,4,5,6,7 - 6+7+17] | | |
| * Mammary Gland | | Adenocarcinoma | |
| | [Adenocarcinoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Ovary | | Atrophy | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Marked |
| | [Extramedullary Hematopoiesis TGLs = 2 - 8] | | |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 339

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301884

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | Vagina | |

OBSERVATIONS

- | | | | |
|---------------------------|--|-------------------------------|------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Adenoma | |
| | [Adenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Uterus | | Polyp Stromal | |
| | | Squamous Metaplasia | Mild |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 340

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301885

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	Vagina

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Moderate
	[Infiltration Cellular TGLs = 2 - 6+7]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 16]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Marked
* Ovary		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Squamous Metaplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 341

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301886

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Ovary | * Pancreas |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| Vagina | | | |

MISSING

- | | |
|---------------------|----------|
| * Parathyroid Gland | * Thymus |
|---------------------|----------|

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex | | Angiectasis | Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | Hyperplasia | Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Uterus | | Polyp Stromal | |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 342

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301887

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular
- Vagina
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Ovary
- * Skin
- * Urinary Bladder
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Forestomach
- * Uterus

OBSERVATIONS

- * Adrenal Medulla
- * Bone Marrow
- * Kidney
- * Liver
- Bile Duct
- Bile Duct
- [Dilation TGLs = 1 - 16]
- * Lung
- [Infiltration Cellular TGLs = 2 - 6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 3 - 17]
- * Nose
- * Pituitary Gland
- * Spleen
- * Thymus
- * Thyroid Gland
- Epithelium
- Pars Distalis
- C Cell
- Hyperplasia
- Hypercellularity
- Nephropathy
- Clear Cell Focus
- Dilation
- Hyperplasia
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Focal, Minimal
- Minimal
- Chronicprogr, Minimal
- Marked
- Minimal
- Histiocyte, Mild
- Mild
- Marked
- Marked
- Mild
- Mild
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 596

DOSE: 2500 ppm females

DISP: Moribund Sacrifice

HISTO: 1301888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|---|-------------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Inflammation | Chronic Active, Mild |
| | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 3 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| * Ovary | | Atrophy | Mild |
| | Follicle | Cyst | |
| * Pituitary Gland | Pars Distalis | Carcinoma | |
| | Note: Carcinoma based upon invasion into cranial nerves in B05. | | |
| | [Carcinoma TGLs = 2 - 16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Squamous Metaplasia | Minimal |
| | [Hyperplasia TGLs = 1 - 14] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 596

DOSE: 2500 ppm females

DISP: Moribund Sacrifice

HISTO: 1301888

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Carcinoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 344

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301889

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pituitary Gland
- * Stomach, Glandular
- Vagina

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
- Bile Duct
- Bile Duct
- [Cyst TGLs = 3 - 12]
- * Lung
- [Infiltration Cellular TGLs = 2 - 6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1 - 16]
- * Nose
- * Ovary
- * Parathyroid Gland
- * Spleen
- * Thymus
- * Uterus
- Epithelium
- Endometrium
- Endometrium
- Degeneration
- Hypercellularity
- Nephropathy
- Clear Cell Focus
- Cyst
- Hyperplasia
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenocarcinoma
- Hemorrhage
- Hyperplasia
- Squamous Metaplasia
- Cystic, Minimal
- Moderate
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Moderate
- Moderate
- Mild
- Minimal
- Mild
- Minimal
- Mild
- Minimal
- Minimal
- Minimal
- Cystic, Minimal
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 345

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301890

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Pancreas | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Thyroid Gland | * Trachea |
| * Urinary Bladder | Vagina | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|--|---------------|-------------------------------|----------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Cyst | |
| [Cyst TGLs = 3 - 18] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| [Infiltration Cellular TGLs = 4 - 6+7] | | Inflammation | Granulomatous, Focal, Mild |
| * Mammary Gland | | Hyperplasia | Adenomatous, Marked |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | Bursa | Atrophy | Moderate |
| | | Cyst | |
| [Cyst TGLs = 1 - 16] | | Inflammation | Chronic, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 5 - 19] | | | |
| * Stomach, Glandular | | Mineral | Mild |
| * Thymus | | Atrophy | Minimal |
| * Uterus | | Dilation | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 345

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301890

ORGAN AND ACCOUNTABLE SITE STATUS

Endometrium

Hyperplasia

Atypical, Minimal

Hyperplasia

Cystic, Minimal

Inflammation

Suppurative, Mild

Squamous Metaplasia

Minimal

[Dilation TGLs = 2 - 14Z+17]

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 346

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | Vagina | | |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Mammary Gland | | Hyperplasia | Moderate |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Polyp Stromal | |
| | | Squamous Metaplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 347

TRT#: 4

SEX: Female

DAY ON TEST: 683

DOSE: 2500 ppm females

DISP: Moribund Sacrifice

HISTO: 1301892

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|----------------------|--|-------------------------------|-----------------------|
| * Brain | | Hemorrhage | Mild |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infarct | Minimal |
| * Lung | | Nephropathy | Chronicprogr, Minimal |
| | [Infiltration Cellular TGLs = 2 - 6+7] | Infiltration Cellular | Histiocyte, Mild |
| * Mammary Gland | | Galactocele | Moderate |
| | Note: Inflamed galactocoele. | | |
| | [Galactocele TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Uterus | Endometrium | Adenocarcinoma | |
| | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Squamous Metaplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 348

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301893

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | Vagina | | |

OBSERVATIONS

- | | | | |
|----------------------|--|-------------------------------|-----------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | | Hyperplasia | Minimal |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | Follicle | Cyst | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Stomach, Glandular | | Mineral | Mild |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 349

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301894

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder	Vagina		

OBSERVATIONS

* Adrenal Cortex		Angiectasis Thrombus	Marked
	[Angiectasis TGLs = 3 - 18]		
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 4 - 6+7]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 2 - 17]		
* Nose	Epithelium	Accumulation, Hyaline Droplet Inflammation	Moderate Acute, Minimal
* Ovary	Paraovarian	Atrophy Cyst	Mild
	[Cyst TGLs = 1 - 16]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[Hyperplasia TGLs = 5 - 11]		
* Spleen		Extramedullary Hematopoiesis Pigment	Mild Minimal
* Stomach, Glandular		Mineral	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 349

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 2500 ppm females

DISP: Terminal Sacrifice

HISTO: 1301894

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

Squamous Metaplasia

Minimal

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 350

TRT#: 4

SEX: Female

DAY ON TEST: 484

DOSE: 2500 ppm females

DISP: Natural Death

HISTO: 1301895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | Vagina | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---------------|------------|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Ovary | | Atrophy | Moderate |
| * Spleen | White Pulp | Atrophy | Moderate |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Minimal |
| * Uterus | | Dilation | Marked |
| | | Hemorrhage | Mild |

[Dilation TGLs = 1 - 16]

PRIMARY CAUSE OF DEATH - Uterus Hemorrhage

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 351

TRT#: 6

SEX: Female

DAY ON TEST: 596

DOSE: 5000 ppm females

DISP: Moribund Sacrifice

HISTO: 1301896

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Trachea
- * Urinary Bladder
- Vagina

OBSERVATIONS

- * Bone Marrow: Hypercellularity, Marked
- * Kidney: Nephropathy, Chronicprogr, Minimal
- * Liver: Bile Duct, Cyst
- * Lung: [Cyst TGLs = 4,5 - 18], Infiltration Cellular, Histiocyte, Minimal
- * Nose: Epithelium, Accumulation, Hyaline Droplet, Moderate; Olfactory Epi, Metaplasia, Respiratory, Mild
- * Ovary: Atrophy, Moderate; Granulosa Cell Tumor Malignant, TGLs = 1 - 16]
- * Spleen: Extramedullary Hematopoiesis, Moderate
- * Thymus: Atrophy, Marked
- * Thyroid Gland: C Cell, Hyperplasia, Mild
- * Uterus: Inflammation, Suppurative, Mild; Squamous Metaplasia, TGLs = 2,3 - 14+17], Squamous Metaplasia, Moderate

PRIMARY CAUSE OF DEATH - Ovary Granulosa Cell Tumor Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 352

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301897

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
Vagina			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Mild
* Bone Marrow		Hypercellularity	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 2 -6+7]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Ovary		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLs = 1- 16]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 353

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301898

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Kidney
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thyroid Gland
- * Trachea
- * Urinary Bladder
- Vagina

OBSERVATIONS

- * Bone Marrow
- Hypercellularity
- Moderate
- * Intestine Large, Rectum
- Parasite Metazoan
- * Liver
- Eosinophilic Focus
- Bile Duct
- Hyperplasia
- Minimal
- * Lung
- Adenocarcinoma
- Metastatic (Uterus)
- Infiltration Cellular
- Infiltration Cellular TGLs = 2 - 6+7
- Histiocyte, Moderate
- * Nose
- Epithelium
- Accumulation, Hyaline Droplet
- Marked
- * Ovary
- Atrophy
- Moderate
- Follicle
- * Pituitary Gland
- Pars Distalis
- Cyst
- * Spleen
- Hyperplasia
- Mild
- * Thymus
- Extramedullary Hematopoiesis
- Mild
- * Uterus
- Atrophy
- Mild
- Endometrium
- Adenocarcinoma
- Endometrium
- Hyperplasia
- Cystic, Mild
- Squamous Metaplasia
- Minimal

Note: Note presence of epithelium/mucosa on entire outer surface of B16, indicating outer wall of uterus was not in section.

Note: B14Y and Z show adenocarcinoma better; B16 is mostly edematous non-neoplastic part of the mass.

[Adenocarcinoma TGLs = 1 - 16]

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 354

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301899

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Pancreas | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | Vagina |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Cyst | |
| | | Eosinophilic Focus | |
| | [Cyst TGLs = 2 - 17] | | |
| | [Eosinophilic Focus TGLs = 5 - 19] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 3 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1- 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4 - 18] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 355

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301900

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | Vagina | |

OBSERVATIONS

- | | | | |
|-----------------|--|-------------------------------|-----------------------|
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1 - 6] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Ovary | | Atrophy | Mild |
| | Follicle | Cyst | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | Bilateral, C Cell | Adenoma | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Polyp Stromal | |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 356

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301901

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Stomach, Glandular
- Vagina
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Ovary
- * Salivary Glands
- * Thyroid Gland
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Skin
- * Trachea

OBSERVATIONS

- * Adrenal Cortex
 - Blood Vessel
 - Note: Duodenal, pancreatic, rectal, and uterine arteries are inflamed.
- * Kidney
- * Liver
- * Lung
 - [Infiltration Cellular TGLs = 1 - 6+7]
- * Mammary Gland
- * Nose
- * Spleen
- * Thymus
- * Uterus
- Thrombus
- Inflammation
- Nephropathy
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Hyperplasia
- Accumulation, Hyaline Droplet
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Squamous Metaplasia
- Chronic Active, Mild
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Granulomatous, Focal, Minimal
- Mild
- Moderate
- Mild
- Minimal
- Mild
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 357

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301902

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|-------------------|----------------------------------|-------------------------------|--------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | Bile Duct | Cyst | |
| | Bile Duct | Eosinophilic Focus | |
| | | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| | [Cyst TGLs = 3 - 18] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Mammary Gland | | Adenocarcinoma | |
| | | Fibroadenoma | |
| | [Adenocarcinoma TGLs = 2 - 17] | | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4 - 19] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Squamous Metaplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 358

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301903

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Trachea
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Skin
- * Urinary Bladder
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Liver
- * Parathyroid Gland
- * Stomach, Forestomach
- * Uterus
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Stomach, Glandular
- Vagina

OBSERVATIONS

- * Adrenal Cortex
- * Adrenal Medulla
- Blood Vessel
- Hypertrophy
- Hyperplasia
- Aneurysm
- Inflammation
- Thrombus
- Focal, Mild
- Focal, Minimal
- Marked
- Chronic Active, Marked

Note: Mesenteric and pancreatic arteries have aneurysms.

Note: Cardiac, carotid, intestinal, mediastinal, mesenteric, pancreatic, renal, thyroid, and uterine arteries are inflamed.

[Aneurysm TGLs = 4,5 - 19+20]

- * Bone Marrow
- * Kidney
- * Lung
- Lymph Node
- Mediastinal
- [Infiltration Cellular TGLs = 7 - 22]
- * Mammary Gland
- Fibroadenoma
- Hyperplasia
- Moderate
- Chronicprogr, Minimal
- Histiocyte, Mild
- Histiocyte, Mild

[Fibroadenoma TGLs = 6 - 21]

- * Nose
- * Ovary
- Epithelium
- Bursa
- Accumulation, Hyaline Droplet
- Cyst
- Moderate

[Cyst TGLs = 3 - 18]

- * Spleen
- Extramedullary Hematopoiesis
- Inflammation
- Moderate
- Chronic Active, Moderate

[Inflammation TGLs = 1,2 - 16+17]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 358

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301903

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Adenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 359

TRT#: 6

SEX: Female

DAY ON TEST: 715

DOSE: 5000 ppm females

DISP: Natural Death

HISTO: 1301904

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- Vagina
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 5 - 6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1 - 16]
- * Nose
- * Ovary
- [Granulosa Cell Tumor Malignant TGLs = 4 - 18]
- * Pituitary Gland
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Bile Duct
- Epithelium
- Pars Distalis
- C Cell
- Endometrium
- Hyperplasia
- Hypercellularity
- Nephropathy
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Granulosa Cell Tumor Malignant
- Hyperplasia
- Extramedullary Hematopoiesis
- Atrophy
- Adenoma
- Adenocarcinoma
- Inflammation
- Squamous Metaplasia
- Focal, Minimal
- Marked
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Moderate
- Granulomatous, Focal, Minimal
- Moderate
- Moderate
- Minimal
- Moderate
- Mild
- Suppurative, Moderate
- Mild

[Inflammation TGLs = 2 - 14Y+14Z+17]

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 360

TRT#: 6

SEX: Female

DAY ON TEST: 495

DOSE: 5000 ppm females

DISP: Natural Death

HISTO: 1301905

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | Vagina | |

OBSERVATIONS

- | | | | |
|-----------------|--|-------------------------------|------------------|
| * Bone Marrow | | Hypercellularity | Moderate |
| * Liver | | Necrosis | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 3 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Moderate |
| | Bursa | Cyst | |
| | [Cyst TGLs = 2 - 17] | | |
| * Spleen | White Pulp | Atrophy | Moderate |
| | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Mild |
| * Uterus | | Squamous Metaplasia | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 361

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301906

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | Vagina | |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|----------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Angiectasis | Minimal |
| | Bile Duct | Cholangioma | |
| | | Cyst | |
| | | Eosinophilic Focus | |
| | [Cholangioma TGLs = 3 - 18] | | |
| | [Cyst TGLs = 2 - 17] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | [Infiltration Cellular TGLs = 6 - 6+7] | | |
| Lymph Node | Deep Cervical | Carcinoma | Metastatic (Thyroid Gland) |
| | [Carcinoma TGLs = 4 - 19] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | Note: Second fibroadenoma on slide 15. | | |
| | [Fibroadenoma TGLs = 7 - 20] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Moderate |
| * Pancreas | Acinus | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Carcinoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 361

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301906

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLs = 1 - 16]

* Uterus

Lymphatic

Endometrium

Adenomyosis

Angiectasis

Hyperplasia

Minimal

Moderate

Cystic, Mild

Experiment Number: 20712 - 03
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Tris(Chloropropyl)phosphate
CAS Number: 13674-84-5

Date Report Requested: 09/18/2020
Time Report Requested: 11:04:53
First Dose M/F: 12/12/11 / 12/13/11
Lab: BAT

ANIMAL ID: 362

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301907

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	Vagina		

OBSERVATIONS

* Bone Marrow		Hypercellularity	Marked
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Cyst	
	[Cyst TGLs = 4 - 18]		
* Lung		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 3 - 6+7]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 16]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Moderate
* Ovary		Atrophy	Mild
	Bursa	Cyst	
	[Cyst TGLs = 5 - 14]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 17]		
* Spleen		Extramedullary Hematopoiesis	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Marked
* Uterus	Endometrium	Adenocarcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 362

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301907

ORGAN AND ACCOUNTABLE SITE STATUS

Dilation

Marked

Inflammation

Suppurative, Moderate

Squamous Metaplasia

Marked

Thrombus

[Dilation TGLs = 6 - 14Z+19+20]

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 363

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301908

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Stomach, Forestomach
- Vagina
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Ovary
- * Stomach, Glandular
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Trachea
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Urinary Bladder

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Adrenal Cortex
 - [Hemorrhage TGLs = 4 - 11]
 - * Bone Marrow
 - * Heart
 - * Kidney
 - * Liver
 - Bile Duct
 - * Lung
 - [Infiltration Cellular TGLs = 6 - 6+7]
 - * Mammary Gland
 - [Adenocarcinoma TGLs = 3 - 18]
 - [Fibroadenoma TGLs = 1,2 - 16+17]
 - * Nose
 - Epithelium
 - * Pituitary Gland
 - Pars Distalis
 - [Adenoma TGLs = 7 - 11]
- Degeneration
Hemorrhage
- Hypercellularity
Schwannoma Malignant
Nephropathy
Basophilic Focus
Eosinophilic Focus
Hyperplasia
Infiltration Cellular
- Adenocarcinoma
Fibroadenoma
Hyperplasia
- Accumulation, Hyaline Droplet
Inflammation
Adenoma
- Cystic, Mild
Marked
- Moderate
- Chronicprogr, Minimal
- Minimal
Histiocyte, Mild
- Multiple
Marked
- Mild
Acute, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 363

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301908

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Pinna	Neural Crest Tumor	
	[Neural Crest Tumor TGLs = 5 - 19]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Marked
* Uterus		Polyp Stromal	

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 364

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301909

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular
- Vagina
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- Bile Duct
- Bile Duct
- * Lung
- [Infiltration Cellular TGLs = 2 - 6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1 - 16]
- * Nose
- * Ovary
- * Pituitary Gland
- * Spleen
- * Thymus
- * Uterus
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Cyst
- Eosinophilic Focus
- Hyperplasia
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Squamous Metaplasia
- Focal, Mild
- Mild
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Moderate
- Minimal
- Minimal
- Mild
- Moderate
- Mild
- Mild
- Minimal
- Cystic, Mild
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 365

TRT#: 6

SEX: Female

DAY ON TEST: 232

DOSE: 5000 ppm females

DISP: Natural Death

HISTO: 1301910

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | Vagina | | |

OBSERVATIONS

- | | | | |
|--------------------------------|-------------|------------------------------|---------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Liver | | Basophilic Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| Lymph Node | Mediastinal | Hyperplasia | Plasma Cell, Mild |
| [Hyperplasia TGLs = 2 - 17] | | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1 - 16] | | | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 366

TRT#: 6

SEX: Female

DAY ON TEST: 596

DOSE: 5000 ppm females

DISP: Moribund Sacrifice

HISTO: 1301911

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Salivary Glands	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
Vagina			

OBSERVATIONS

* Bone Marrow		Hypercellularity	Marked
* Lung		Infiltration Cellular	Histiocyte, Marked
	[Infiltration Cellular TGLs = 2 - 6+7]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 16]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Ovary		Atrophy	Moderate
* Parathyroid Gland		Hyperplasia	Minimal
* Pituitary Gland	Rathkes Cleft	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Squamous Metaplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 367

TRT#: 6

SEX: Female

DAY ON TEST: 616

DOSE: 5000 ppm females

DISP: Moribund Sacrifice

HISTO: 1301912

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Liver
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Ovary
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thyroid Gland
- * Trachea
- * Urinary Bladder
- * Uterus

OBSERVATIONS

- * Bone Marrow
 - * Brain
 - * Intestine Large, Colon
 - * Kidney
 - * Lung
 - [Infiltration Cellular TGLs = 2 - 6+7]
 - * Mammary Gland
 - * Nose
 - * Pituitary Gland
 - * Skin
 - [Sarcoma TGLs = 1 - 16]
 - * Spleen
 - * Thymus
- | | | | |
|--|---------------|-------------------------------|-------------------------|
| | | Hypercellularity | Moderate |
| | Cranial Nerve | Gliosis | Mild |
| | | Erosion | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | | Nephropathy | Chronicprogr, Minimal |
| | | Infiltration Cellular | Histiocyte, Mild |
| | | Hyperplasia | Mild |
| | Epithelium | Accumulation, Hyaline Droplet | Mild |
| | Glands | Hyperplasia | Minimal |
| | Pars Distalis | Hyperplasia | Moderate |
| | Subcut Tiss | Sarcoma | |
| | White Pulp | Atrophy | Mild |
| | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| | | Atrophy | Marked |

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 368

TRT#: 6

SEX: Female

DAY ON TEST: 529

DOSE: 5000 ppm females

DISP: Moribund Sacrifice

HISTO: 1301913

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | Vagina | |

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Eye | | Inflammation | Chronic Active, Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| | | Inflammation | Acute, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 369

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301914

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Parathyroid Gland
- * Stomach, Forestomach
- * Uterus
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Stomach, Glandular
- Vagina
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Trachea
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Skin
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Liver
- * Lung
 - [Infiltration Cellular TGLs = 3 - 6+7]
- * Mammary Gland
 - [Fibroadenoma TGLs = 2 - 17]
- * Nose
- * Ovary
 - [Sarcoma TGLs = 1 - 16]
- * Spleen
- * Thymus
- * Thyroid Gland
- Bile Duct
- Epithelium
- C Cell
- Hypertrophy
- Hypercellularity
- Clear Cell Focus
- Eosinophilic Focus
- Hyperplasia
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Sarcoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Focal, Minimal
- Moderate
- Minimal
- Histiocyte, Mild
- Mild
- Mild
- Mild
- Minimal
- Mild
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 370

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301915

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	Vagina		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 1 - 6+7]		
* Mammary Gland		Hyperplasia	Mild
* Nose	Epithelium	Accumulation, Hyaline Droplet	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Stomach, Glandular		Mineral	Mild
* Thymus		Atrophy	Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 371

TRT#: 6

SEX: Female

DAY ON TEST: 669

DOSE: 5000 ppm females

DISP: Natural Death

HISTO: 1301916

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	Vagina	

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Intestine Small, Jejunum		Schwannoma Malignant	
	[Schwannoma Malignant TGLs = 3 - 17]		
* Lung		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 2 - 6+7]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Ovary		Atrophy	Moderate
	[Granulosa Cell Tumor Malignant TGLs = 1 - 16]	Granulosa Cell Tumor Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen	White Pulp	Atrophy	Marked
		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Squamous Metaplasia	Minimal

PRIMARY CAUSE OF DEATH - Intestine Small, Jejunum Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 372

TRT#: 6

SEX: Female

DAY ON TEST: 393

DOSE: 5000 ppm females

DISP: Moribund Sacrifice

HISTO: 1301917

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|-----------------|-------------------------------|-------------------------------|-------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Liver | | Necrosis | Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1- 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Spleen | White Pulp | Atrophy | Mild |
| | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Mild |
| Vagina | | Inflammation | Suppurative, Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 373

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301918

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | Vagina | | |

OBSERVATIONS

- | | | | |
|-------------------|-------------------------------------|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2 - 16+17] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Hyperplasia | Atypical, Minimal |
| | | Squamous Metaplasia | Moderate |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 374

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301919

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | Vagina | |

OBSERVATIONS

- | | | | |
|---------------|-------------------------------|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Eye | Retina | Degeneration | Minimal |
| * Kidney | Renal Tubule | Hyperplasia | Minimal |
| | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Angiectasis | Mild |
| | | Basophilic Focus | |
| | | Degeneration | Cystic, Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | Hepatocyte | Regeneration | Mild |
| | [Angiectasis TGLs = 1 - 12] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Ovary | | Atrophy | Mild |
| | Granulosa Cell | Hyperplasia | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Uterus | | Squamous Metaplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 375

TRT#: 6

SEX: Female

DAY ON TEST: 673

DOSE: 5000 ppm females

DISP: Natural Death

HISTO: 1301920

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |
| Vagina | | | |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|------------------|
| * Bone Marrow | | Hemorrhage | Moderate |
| | | Hypercellularity | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Squamous Metaplasia | Mild |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2 - 11] | | |
| * Spleen | White Pulp | Atrophy | Mild |
| | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | Bilateral, C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 376

TRT#: 6

SEX: Female

DAY ON TEST: 596

DOSE: 5000 ppm females

DISP: Moribund Sacrifice

HISTO: 1301921

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | Vagina | | |

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|-------------------------------|---------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Mild |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLs = 1 - 16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Squamous Metaplasia | Minimal |

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 377

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301922

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Pancreas
- * Salivary Glands
- * Stomach, Glandular
- * Thyroid Gland
- Vagina
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Skin
- * Trachea
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Stomach, Forestomach
- * Urinary Bladder

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Kidney Nephropathy Chronicprogr, Minimal
- * Liver Bile Duct Cyst
- Bile Duct Hyperplasia Minimal
- [Cyst TGLs = 4 - 19]
- * Lung Infiltration Cellular Histiocyte, Mild
- Inflammation Granulomatous, Focal, Minimal
- [Infiltration Cellular TGLs = 5 - 6+7]
- * Mammary Gland Fibroadenoma Multiple
- [Fibroadenoma TGLs = 2,3 - 17+18]
- * Nose Epithelium Accumulation, Hyaline Droplet Mild
- * Ovary Paraovarian Atrophy Mild
- Cyst Cyst
- [Cyst TGLs = 1 - 16]
- * Pituitary Gland Pars Distalis Hyperplasia Minimal
- * Spleen Extramedullary Hematopoiesis Mild
- Pigment Mild
- * Thymus Atrophy Minimal
- * Uterus Endometrium Hyperplasia Cystic, Minimal
- Squamous Metaplasia Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 378

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301923

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Small, Duodenum
- * Islets, Pancreatic
- * Kidney
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Glandular
- * Thyroid Gland
- * Uterus
- Vagina
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Skin
- * Trachea
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Stomach, Forestomach
- * Urinary Bladder

OBSERVATIONS

- * Intestine Large, Rectum
- * Liver
- * Lung
- * Mammary Gland
- * Nose
- * Ovary
- * Pancreas
- * Pituitary Gland
- * Spleen
- * Thymus
- Bile Duct
- [Infiltration Cellular TGLs = 3 - 6+7]
- [Fibroadenoma TGLs = 1 - 16]
- Epithelium
- Bursa
- Note: Eosinophils present.
- Pars Distalis
- Parasite Metazoan
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Cyst
- Inflammation
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Minimal
- Histiocyte, Moderate
- Moderate
- Moderate
- Chronic Active, Minimal
- Mild
- Mild
- Mild
- Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 379

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301924

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | Vagina | |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|------------------|
| * Bone Marrow | | Hypercellularity | Minimal |
| * Liver | Bile Duct | Cyst | |
| | Bile Duct | Hyperplasia | Minimal |
| | [Cyst TGLs = 1 - 17] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Squamous Metaplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 380

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301925

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone Marrow
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Liver
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thyroid Gland
- * Trachea
- * Urinary Bladder
- Vagina

OBSERVATIONS

- * Intestine Large, Rectum
 - * Islets, Pancreatic
 - * Kidney
 - * Lung
 - [Infiltration Cellular TGLs = 2 - 6+7]
 - * Nose
 - * Ovary
 - [Cyst TGLs = 1 - 16]
 - * Pituitary Gland
 - * Spleen
 - * Thymus
 - * Uterus
- | | | |
|--|-------------------------------|-----------------------|
| | Parasite Metazoan | |
| | Hyperplasia | Minimal |
| | Nephropathy | Chronicprogr, Minimal |
| | Infiltration Cellular | Histiocyte, Mild |
| | Accumulation, Hyaline Droplet | Moderate |
| | Atrophy | Mild |
| | Cyst | |
| | Hyperplasia | Mild |
| | Extramedullary Hematopoiesis | Mild |
| | Pigment | Minimal |
| | Atrophy | Mild |
| | Hyperplasia | Cystic, Minimal |
| | Inflammation | Suppurative, Moderate |
| | Squamous Metaplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 381

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301926

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Pancreas
- * Skin
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Small, Duodenum
- * Liver
- * Parathyroid Gland
- * Stomach, Forestomach
- Vagina
- * Brain
- * Harderian Gland
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Stomach, Glandular

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Intestine Large, Rectum
- * Kidney
- * Lung
 - [Infiltration Cellular TGLs = 2 - 6+7]
- * Mammary Gland
 - [Adenocarcinoma TGLs = 1 - 16]
- * Nose
- * Ovary
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Degeneration
- Hypercellularity
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Infiltration Cellular
- Adenocarcinoma
- Accumulation, Hyaline Droplet
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Inflammation
- Polyp Stromal
- Squamous Metaplasia
- Cystic, Minimal
- Mild
- Minimal
- Chronicprogr, Mild
- Histiocyte, Mild
- Moderate
- Moderate
- Mild
- Minimal
- Minimal
- Suppurative, Moderate
- Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 382

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301927

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Brain
- * Clitoral Gland
- * Harderian Gland
- * Heart
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Skin
- * Stomach, Forestomach
- * Urinary Bladder
- Vagina
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Glandular
- * Bone
- * Eye
- * Intestine Large, Colon
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Trachea

OBSERVATIONS

- * Bone Marrow
- Hypercellularity
- Mild
- * Intestine Large, Rectum
- Parasite Metazoan
- * Islets, Pancreatic
- Adenoma
- * Kidney
- Nephropathy
- Chronicprogr, Minimal
- * Liver
- Clear Cell Focus
- Bile Duct
- Cyst
- Bile Duct
- Hyperplasia
- Minimal
- [Cyst TGLs = 2,3 - 12]
- * Lung
- Infiltration Cellular
- Histiocyte, Minimal
- [Infiltration Cellular TGLs = 4,5 - 6+7]
- * Nose
- Epithelium
- Accumulation, Hyaline Droplet
- Moderate
- * Ovary
- Paraovarian
- Atrophy
- Moderate
- [Cyst TGLs = 1 - 14]
- * Pituitary Gland
- Cyst
- [Cyst TGLs = 6 - 11]
- * Salivary Glands
- Inflammation
- Chronic Active, Minimal
- * Spleen
- Extramedullary Hematopoiesis
- Mild
- Pigment
- Mild
- * Thymus
- Atrophy
- Minimal
- * Thyroid Gland
- C Cell
- Hyperplasia
- Minimal
- * Uterus
- Endometrium
- Hyperplasia
- Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 382

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301927

ORGAN AND ACCOUNTABLE SITE STATUS

Hyperplasia

Atypical, Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 383

TRT#: 6

SEX: Female

DAY ON TEST: 704

DOSE: 5000 ppm females

DISP: Natural Death

HISTO: 1301928

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	Vagina

MISSING

* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Salivary Glands	* Thymus		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Bone Marrow		Hypercellularity	Moderate
* Kidney	Pelvis	Dilation	Marked
	Pelvis	Inflammation	Chronic Active, Mild
	[Dilation TGLs = 3 - 16]		
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Infiltration Cellular	Histiocyte, Minimal
	Note: Metastasis is of alveolar-bronchiolar carcinoma, but cannot code that since TDMSE considers it a duplicate diagnosis.		
	[Alveolar/Bronchiolar Carcinoma TGLs = 4 - 6]		
	[Infiltration Cellular TGLs = 1 - 6+7]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Ovary		Atrophy	Mild
	Granulosa Cell	Hyperplasia	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Spleen	White Pulp	Atrophy	Mild
		Extramedullary Hematopoiesis	Mild
* Uterus	Endometrium	Adenocarcinoma	
		Dilation	Marked
		Squamous Metaplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 383

TRT#: 6

SEX: Female

DAY ON TEST: 704

DOSE: 5000 ppm females

DISP: Natural Death

HISTO: 1301928

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenocarcinoma TGLs = 5 - 14Y+17]

[Dilation TGLs = 2 - 14Y+14Z+18]

PRIMARY CAUSE OF DEATH

- Uterus Endometrium Adenocarcinoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 384

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301929

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- * Uterus
- * Bone
- * Eye
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular
- Vagina
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Trachea

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Intestine Large, Rectum
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 1 - 6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 3 - 17]
- * Nose
- * Ovary
- * Pituitary Gland
- [Adenoma TGLs = 4 - 18]
- * Spleen
- * Thymus
- * Thyroid Gland
- [Carcinoma TGLs = 2 - 16]
- Bile Duct
- Epithelium
- Follicle
- Pars Distalis
- C Cell
- Hypertrophy
- Hypercellularity
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Carcinoma
- Focal, Minimal
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Moderate
- Mild
- Moderate
- Mild
- Mild
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 385

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301930

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|--|----------------|-------------------------------|-------------------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Cyst | |
| [Cyst TGLs = 1 - 12] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| [Infiltration Cellular TGLs = 3 - 6+7] | | Inflammation | Granulomatous, Focal, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 2 - 16] | | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| | | Inflammation | Acute, Minimal |
| | Respirat Epith | Metaplasia | Squamous, Minimal |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| [Hyperplasia TGLs = 4 - 11] | | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | | Adenomyosis | Minimal |
| | Endometrium | Hyperplasia | Cystic, Mild |
| | | Inflammation | Suppurative, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 385

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301930

ORGAN AND ACCOUNTABLE SITE STATUS

Squamous Metaplasia

Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 386

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301931

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| * Bone | Joint | Degeneration | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Cyst | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 4 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 3 - 18] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | Paraovarian | Cyst | |
| | [Cyst TGLs = 2 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Hyperplasia | Atypical, Marked |
| | | Squamous Metaplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 387

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 5000 ppm females

DISP: Natural Death

HISTO: 1301932

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
Vagina			

OBSERVATIONS

* Adrenal Cortex		Adenocarcinoma	Metastatic (Uterus)
[Adenocarcinoma TGLs = 5 - 20]			
* Bone Marrow		Hypercellularity	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLs = 7 - 6+7]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1 - 16]			
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Ovary		Atrophy	Mild
Note: Right ovary incorporated into TGL-2 uterine adenocarcinoma, and not visible on slide.			
* Pancreas	Duct	Adenocarcinoma	Metastatic (Uterus)
Note: Adenocarcinoma interpreted as arising in tip of uterine horn and metastasizing widely in anterior abdomen as a result, rather than arising in pancreas.			
[Adenocarcinoma TGLs = 3,4,8 - 18+19+22]			
* Spleen	White Pulp	Atrophy	Mild
		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Stomach, Glandular		Adenocarcinoma	Metastatic (Uterus)
[Adenocarcinoma TGLs = 6 - 21]			
* Uterus	Endometrium	Adenocarcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 387

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 5000 ppm females

DISP: Natural Death

HISTO: 1301932

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL-2 interpreted as uterine tip, and origin of carcinomatosis. This was also the largest mass grossly.

[Adenocarcinoma TGLs = 2 - 17]

PRIMARY CAUSE OF DEATH

- Uterus Endometrium Adenocarcinoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 388

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301933

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Thyroid Gland
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Pancreas
- * Skin
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Forestomach
- Vagina
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Stomach, Glandular

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Intestine Large, Rectum
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2 - 6+7]
- * Mammary Gland
- * Nose
- * Ovary
- * Spleen
- * Thymus
- * Urinary Bladder
- * Uterus
- [Dilatation TGLs = 1 - 14Y+14Z+16+17]
- Necrosis
- Hypercellularity
- Parasite Metazoan
- Nephropathy
- Basophilic Focus
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Extramedullary Hematopoiesis
- Atrophy
- Adenocarcinoma
- Adenocarcinoma
- Dilatation
- Inflammation
- Squamous Metaplasia
- Moderate
- Marked
- Chronicprogr, Minimal
- Histiocyte, Mild
- Moderate
- Mild
- Moderate
- Moderate
- Metastatic (Uterus)
- Marked
- Chronic Active, Marked
- Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 389

TRT#: 6

SEX: Female

DAY ON TEST: 564

DOSE: 5000 ppm females

DISP: Moribund Sacrifice

HISTO: 1301934

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Thyroid Gland
- Blood Vessel
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Trachea
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Stomach, Forestomach
- * Urinary Bladder
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Pancreas
- * Stomach, Glandular
- Vagina

OBSERVATIONS

- * Adrenal Medulla
- * Bone
- * Bone Marrow
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 4 - 6+7]
- * Nose
- * Ovary
- [Cyst TGLs = 2 - 14]
- * Pituitary Gland
- * Skin
- [Fibroma TGLs = 1 - 16]
- * Spleen
- * Thymus
- * Uterus
- Joint
- Epithelium
- Follicle
- Pars Distalis
- Subcut Tiss
- Hyperplasia
- Degeneration
- Hypercellularity
- Basophilic Focus
- Clear Cell Focus
- Eosinophilic Focus
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Inflammation
- Cyst
- Hyperplasia
- Fibroma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Focal, Minimal
- Minimal
- Moderate
- Histiocyte, Mild
- Mild
- Acute, Minimal
- Moderate
- Moderate
- Minimal
- Moderate
- Atypical, Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 390

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301935

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | Vagina | | |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | [Hepatodiaphragmatic Nodule TGLs = 1 - 16] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |
| * Uterus | | Squamous Metaplasia | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 391

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301936

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-----------------|--|-------------------------------|-------------------------------|
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus, Epithelium | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Ovary | | Atrophy | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Hyperplasia | Atypical, Minimal |
| | | Squamous Metaplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Tris(Chloropropyl)phosphate
CAS Number: 13674-84-5

Date Report Requested: 09/18/2020
Time Report Requested: 11:04:53
First Dose M/F: 12/12/11 / 12/13/11
Lab: BAT

ANIMAL ID: 392

TRT#: 6

SEX: Female

DAY ON TEST: 545

DOSE: 5000 ppm females

DISP: Natural Death

HISTO: 1301937

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	Vagina		

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Necrosis	Mild
* Lung		Infiltration Cellular	Histiocyte, Moderate
	[Infiltration Cellular TGLs = 2 - 6+7]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 16]		
* Nose	Epithelium	Accumulation, Hyaline Droplet Inflammation	Moderate Acute, Minimal
* Ovary		Atrophy	Moderate
* Spleen	White Pulp	Atrophy	Minimal
		Extramedullary Hematopoiesis	Moderate
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia Squamous Metaplasia	Cystic, Minimal Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 393

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301938

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| Vagina | | | |

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|-------------------------------|-----------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| | | Hyperplasia | Atypical, Mild |

Note: Hyperplasia is present at tip of horn in slide B14.

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 394

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301939

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Pancreas | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| Vagina | | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---------------------------|--|-------------------------------|------------------|
| * Bone Marrow | | Hypercellularity | Moderate |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Mammary Gland | | Hyperplasia | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2 - 16] | | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Polyp Stromal | |
| | | Squamous Metaplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 395

TRT#: 6

SEX: Female

DAY ON TEST: 657

DOSE: 5000 ppm females

DISP: Natural Death

HISTO: 1301940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Kidney
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Trachea
- * Urinary Bladder
- Vagina

OBSERVATIONS

- * Bone Marrow
 - * Liver
 - * Lung
 - * Mammary Gland
 - [Fibroadenoma TGLs = 1 - 16]
 - * Nose
 - * Ovary
 - * Pituitary Gland
 - [Adenoma TGLs = 2 - 17]
 - * Spleen
 - * Thymus
 - * Thyroid Gland
 - * Uterus
- | | | | |
|--|---------------|-------------------------------|---------------------|
| | Bile Duct | Hypercellularity | Moderate |
| | | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| | | Fibroadenoma | |
| | Epithelium | Accumulation, Hyaline Droplet | Mild |
| | | Atrophy | Mild |
| | Pars Distalis | Adenoma | |
| | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Mild |
| | | Atrophy | Minimal |
| | C Cell | Adenoma | |
| | Endometrium | Hyperplasia | Cystic, Mild |
| | | Polyp Stromal | Cystic |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 396

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	Vagina		

OBSERVATIONS

* Bone Marrow		Hypercellularity	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	[Eosinophilic Focus TGLs = 1 - 16]		
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Granulomatous, Focal, Minimal
	[Infiltration Cellular TGLs = 2 - 6+7]		
* Mammary Gland		Hyperplasia	Mild
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
		Inflammation	Acute, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 397

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301942

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |
| Vagina | | | |

OBSERVATIONS

- | | | | |
|-----------------|--|-------------------------------|-------------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | | Hyperplasia | Mild |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Ovary | Follicle | Cyst | |
| * Pancreas | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 398

TRT#: 6

SEX: Female

DAY ON TEST: 529

DOSE: 5000 ppm females

DISP: Moribund Sacrifice

HISTO: 1301943

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |
| Vagina | | | |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 399

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301944

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | Vagina | |

OBSERVATIONS

* Int Sm Duoden

Note: Based upon lack of vascular or other associated changes, B17 has a post-mortem intussusception.

* Kidney

Nephropathy

Chronicprogr, Minimal

* Liver

Clear Cell Focus

Bile Duct

Cyst

Eosinophilic Focus

[Cyst TGLs = 3- 12]

* Lung

Infiltration Cellular

Histiocyte, Mild

[Infiltration Cellular TGLs = 2 - 6+7]

* Mammary Gland

Fibroadenoma

[Fibroadenoma TGLs = 1 - 16]

* Nose

Epithelium

Accumulation, Hyaline Droplet

Marked

* Spleen

Extramedullary Hematopoiesis

Mild

Pigment

Mild

* Thymus

Atrophy

Minimal

* Thyroid Gland

C Cell

Hyperplasia

Mild

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

Inflammation

Suppurative, Minimal

Squamous Metaplasia

Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 400

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 5000 ppm females

DISP: Terminal Sacrifice

HISTO: 1301945

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| Vagina | | | |

OBSERVATIONS

- | | | | |
|--------------------------------|---------------|-------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Eye | Retina | Degeneration | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Eosinophilic Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1 - 16] | | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Polyp Stromal | Multiple |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 401

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301946

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic | * Kidney | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| Vagina | | | |

OBSERVATIONS

- | | | | |
|---|-------------|-----------------------|------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Mild |
| [Hemorrhage TGLs = 10 - 4] | | | |
| * Intestine Small, Jejunum | | Leukemia Mononuclear | |
| * Liver | | Leukemia Mononuclear | |
| | | Pigment | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Leukemia Mononuclear | |
| [Infiltration Cellular TGLs = 8 - 6+7] | | | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | | Leukemia Mononuclear | |
| | Lumbar | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| Note: TGL-5 = retropharyngeal lymph node. | | | |
| [Leukemia Mononuclear TGLs = 6 - 20] | | | |
| [Leukemia Mononuclear TGLs = 5 - 19] | | | |
| [Leukemia Mononuclear TGLs = 7 - 21] | | | |
| [Leukemia Mononuclear TGLs = 9 - 22] | | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 1 - 18] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 401

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301946

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 4 - 17]		
* Mammary Gland		Leukemia Mononuclear	
* Nose	Epithelium	Accumulation, Hyaline Droplet	Marked
* Ovary		Atrophy	Moderate
		Leukemia Mononuclear	
Peripheral Nerve		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 3 - 16]		
* Stomach, Forestomach		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 9 - 22]		
* Uterus		Leukemia Mononuclear	

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 402

TRT#: 8

SEX: Female

DAY ON TEST: 273

DOSE: 10000 ppm female

DISP: Natural Death

HISTO: 1301947

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thymus
- * Thyroid Gland
- * Trachea
- * Urinary Bladder
- Vagina

MISSING

- * Intestine Large, Cecum
- * Intestine Small, Ileum

OBSERVATIONS

- * Bone Marrow
 - * Kidney
 - * Liver
 - * Lung
 - * Nose
 - * Ovary
 - * Spleen
 - * Uterus
- Bile Duct
 - Epithelium
 - White Pulp
 - Endometrium
- Hypercellularity
 - Nephropathy
 - Hyperplasia
 - Infiltration Cellular
 - Accumulation, Hyaline Droplet
 - Atrophy
 - Atrophy
 - Extramedullary Hematopoiesis
 - Pigment
 - Dilation
 - Hyperplasia
 - Hyperplasia
 - Inflammation
- Mild
 - Chronicprogr, Minimal
 - Minimal
 - Histiocyte, Mild
 - Mild
 - Minimal
 - Moderate
 - Mild
 - Mild
 - Moderate
 - Cystic, Moderate
 - Atypical, Moderate
 - Chronic Active, Mild

[Hyperplasia TGLs = 1 - 16]

PRIMARY CAUSE OF DEATH - Uterus Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 403

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301948

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thyroid Gland
- * Trachea
- * Urinary Bladder
- Vagina

OBSERVATIONS

- * Bone Marrow: Hypercellularity, Moderate
- * Kidney: Nephropathy, Chronicprogr, Minimal
- * Liver: Bile Duct, Cyst, Eosinophilic Focus, Hepatocellular Adenoma, Hyperplasia, Minimal, Pigment, Minimal
- [Hepatocellular Adenoma TGLs = 1 - 16]
- * Lung: Infiltration Cellular, Histiocyte, Moderate
- [Infiltration Cellular TGLs = 3 - 6+7]
- * Nose: Epithelium, Accumulation, Hyaline Droplet, Moderate
- * Ovary: Atrophy, Mild
- * Pituitary Gland: Pars Distalis, Hyperplasia, Marked
- [Hyperplasia TGLs = 4 - 11]
- * Spleen: Extramedullary Hematopoiesis, Mild, Pigment, Mild
- * Thymus: Atrophy, Moderate, Thymoma Malignant
- * Uterus: Endometrium, Adenocarcinoma, Hyperplasia, Cystic, Minimal, Endometrium, Hyperplasia, Atypical, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 403

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301948

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 2 - 14Y]

Inflammation
Squamous Metaplasia

Suppurative, Moderate
Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 404

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301949

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder
- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lung
- * Parathyroid Gland
- * Stomach, Glandular
- Vagina
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Skin
- * Trachea

OBSERVATIONS

- * Bone Marrow
- * Kidney
- * Liver
- Bile Duct
- [Hepatocellular Adenoma TGLs = 1 - 16]
- * Mammary Gland
- [Fibroadenoma TGLs = 2 - 17]
- * Nose
- * Ovary
- * Pituitary Gland
- [Adenoma TGLs = 3 - 11]
- * Spleen
- * Thymus
- * Uterus
- Endometrium
- Hypercellularity
- Nephropathy
- Hepatocellular Adenoma
- Hyperplasia
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Squamous Metaplasia
- Mild
- Chronicprogr, Minimal
- Minimal
- Marked
- Mild
- Mild
- Minimal
- Mild
- Cystic, Minimal
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 405

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301950

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	Vagina	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Focal, Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Adenocarcinoma	Metastatic (Mammary Gland)
		Infiltration Cellular	Histiocyte, Marked
	[Infiltration Cellular TGLs = 2 - 6+7]		
* Mammary Gland		Adenocarcinoma	
		Hyperplasia	Minimal
	[Adenocarcinoma TGLs = 1 - 17]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Moderate
		Inflammation	Acute, Minimal
* Ovary		Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Squamous Metaplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 406

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301951

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Stomach, Forestomach
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Stomach, Glandular
- * Urinary Bladder
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Thymus
- Vagina

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
- Bile Duct
- Bile Duct
- * Lung
- [Infiltration Cellular TGLs = 1 - 6+7]
- * Nose
- * Ovary
- * Pancreas
- [Adenoma TGLs = 3 - 18]
- * Pituitary Gland
- * Skin
- [Fibroma TGLs = 2 - 17]
- * Spleen
- * Uterus
- Epithelium
- Acinus
- Pars Distalis
- Subcut Tiss
- Endometrium
- Hyperplasia
- Hypercellularity
- Nephropathy
- Clear Cell Focus
- Cyst
- Eosinophilic Focus
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Inflammation
- Atrophy
- Adenoma
- Hyperplasia
- Fibroma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Squamous Metaplasia
- Focal, Mild
- Mild
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Granulomatous, Focal, Minimal
- Mild
- Acute, Minimal
- Mild
- Minimal
- Minimal
- Minimal
- Cystic, Minimal
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 407

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301952

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|---------------|--|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Hyperplasia | Atypical, Minimal |
| | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| * Lung | [Infiltration Cellular TGLs = 1 - 6+7] | Infiltration Cellular | Histiocyte, Moderate |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| | | Inflammation | Acute, Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Uterus | | Polyp Stromal | |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 408

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301953

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

MISSING

- * Clitoral Gland

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Cyst | |
| | | Eosinophilic Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 3 - 6+7] | | |
| * Mammary Gland | | Adenocarcinoma | |
| | | Fibroadenoma | |
| | [Adenocarcinoma TGLs = 1 - 16] | | |
| | [Fibroadenoma TGLs = 2 - 17] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Ovary | | Atrophy | Mild |
| | Follicle | Cyst | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Hyperplasia | Atypical, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 408

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301953

ORGAN AND ACCOUNTABLE SITE STATUS

Squamous Metaplasia

Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 409

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301954

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Liver
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Pancreas
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thyroid Gland
- * Trachea
- * Urinary Bladder
- Vagina

MISSING

- * Parathyroid Gland

OBSERVATIONS

- Blood Vessel
 - Note: A pancreatic artery is inflamed.
 - * Bone Marrow
 - * Heart
 - * Kidney
 - * Lung
 - [Infiltration Cellular TGLs = 3 - 6+7]
 - * Mammary Gland
 - [Fibroadenoma TGLs = 1 - 16]
 - * Nose
 - Epithelium
 - * Ovary
 - Follicle
 - * Pituitary Gland
 - Pars Distalis
 - * Spleen
 - * Thymus
 - * Uterus
 - Endometrium
 - Endometrium
- [Hyperplasia TGLs = 2 - 14Y+14Z]

Inflammation Chronic Active, Minimal

Hypercellularity Moderate

Cardiomyopathy Minimal

Nephropathy Chronicprogr, Moderate

Infiltration Cellular Histocyte, Moderate

Fibroadenoma

Accumulation, Hyaline Droplet Mild

Inflammation Acute, Minimal

Atrophy Mild

Cyst

Adenoma

Extramedullary Hematopoiesis Mild

Atrophy Minimal

Adenocarcinoma

Hyperplasia Cystic, Marked

Polyp Stromal Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 410

TRT#: 8

SEX: Female

DAY ON TEST: 724

DOSE: 10000 ppm female

DISP: Natural Death

HISTO: 1301955

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular
- * Adrenal Medulla
- * Eye
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Trachea
- Blood Vessel
- * Harderian Gland
- * Mammary Gland
- * Salivary Glands
- * Bone
- * Islets, Pancreatic
- * Pancreas
- * Skin

MISSING

- * Clitoral Gland
- * Urinary Bladder
- * Intestine Large, Rectum
- * Uterus
- * Ovary
- Vagina
- * Thymus

AUTO PRECLUDES DIAG.

- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Intestine Large, Colon
- * Intestine Small, Duodenum
- * Intestine Small, Ileum

OBSERVATIONS

- * Bone Marrow
- * Esophagus
 - [Dilation TGLs = 1 - 16]
- * Heart
- * Kidney
- * Liver
- * Lung
- * Nose
- * Spleen
- * Stomach, Forestomach
- * Thyroid Gland
- Hemorrhage
- Dilation
- Cardiomyopathy
- Nephropathy
- Eosinophilic Focus
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Inflammation
- Ulcer
- Adenoma
- Mild
- Marked
- Mild
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Minimal
- Marked
- Mild
- Minimal
- Mild
- Chronic Active, Mild
- Minimal

PRIMARY CAUSE OF DEATH

- Esophagus Dilation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 411

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301956

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Trachea
- * Urinary Bladder
- Vagina

OBSERVATIONS

- * Bone Marrow: Hypercellularity, Minimal
- * Kidney: Nephropathy, Chronicprogr, Minimal
- * Liver: Bile Duct, Cyst
- * Lung: Bile Duct, Hyperplasia, Minimal; Infiltration Cellular, TGLs = 1 - 6+7, Infiltration Cellular, Histiocyte, Moderate
- * Nose: Epithelium, Accumulation, Hyaline Droplet, Mild
- * Ovary: Atrophy, Mild
- * Spleen: Extramedullary Hematopoiesis, Mild; Pigment, Mild; Atrophy, Mild
- * Thymus: Atrophy, Mild
- * Thyroid Gland: C Cell, Adenoma
- * Uterus: Endometrium, Hyperplasia, Cystic, Mild; Hyperplasia, Atypical, Minimal; Inflammation, Suppurative, Mild; Squamous Metaplasia, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 412

TRT#: 8

SEX: Female

DAY ON TEST: 632

DOSE: 10000 ppm female

DISP: Natural Death

HISTO: 1301957

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Pancreas
- * Skin
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Stomach, Glandular
- Vagina
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Salivary Glands
- * Thyroid Gland

OBSERVATIONS

- * Adrenal Cortex
 - * Bone Marrow
 - * Liver
 - * Lung
 - * Nose
 - * Ovary
 - * Spleen
 - * Thymus
 - * Uterus
 - Adenoma
 - Hypercellularity
 - Eosinophilic Focus
 - Bile Duct
 - Hyperplasia
 - Pigment
 - Infiltration Cellular
 - Accumulation, Hyaline Droplet
 - Atrophy
 - Atrophy
 - Extramedullary Hematopoiesis
 - Atrophy
 - Hemorrhage
 - Inflammation
 - Squamous Metaplasia
 - Marked
 - Minimal
 - Mild
 - Histiocyte, Mild
 - Moderate
 - Moderate
 - Moderate
 - Moderate
 - Marked
 - Moderate
 - Suppurative, Marked
 - Moderate
- [Infiltration Cellular TGLs = 3 - 6+7]
- [Hemorrhage TGLs = 2 - 16+17]
- [Inflammation TGLs = 1 - 16]

PRIMARY CAUSE OF DEATH - Uterus Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 413

TRT#: 8

SEX: Female

DAY ON TEST: 669

DOSE: 10000 ppm female

DISP: Moribund Sacrifice

HISTO: 1301958

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	Vagina

OBSERVATIONS

* Adrenal Cortex		Adenocarcinoma	Metastatic (Uterus)
* Bone Marrow		Hypercellularity	Marked
* Liver		Adenocarcinoma	Metastatic (Uterus)
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
		Necrosis	Mild
		Thrombus	
	[Adenocarcinoma TGLs = 7,8,10 - 21+22+24]		
	[Thrombus TGLs = 9 - 23]		
* Lung		Adenocarcinoma	Metastatic (Uterus)
	[Infiltration Cellular TGLs = 13 - 6+7]	Infiltration Cellular	Histiocyte, Marked
Mesentery		Adenocarcinoma	Metastatic (Uterus)
	[Adenocarcinoma TGLs = 2 - 17]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Minimal
* Ovary		Adenocarcinoma	Metastatic (Uterus)
		Atrophy	Moderate
	[Adenocarcinoma TGLs = 6 - 20]		
* Pancreas		Adenocarcinoma	Metastatic (Uterus)
	[Adenocarcinoma TGLs = 1,12 - 16+25]		
Skeletal Muscle		Adenocarcinoma	Metastatic (Uterus)
	[Adenocarcinoma TGLs = 14 - 26]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 413

TRT#: 8

SEX: Female

DAY ON TEST: 669

DOSE: 10000 ppm female

DISP: Moribund Sacrifice

HISTO: 1301958

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Adenocarcinoma	Metastatic (Uterus)
	White Pulp	Atrophy	Moderate
* Stomach, Glandular		Adenocarcinoma	Metastatic (Uterus)
* Thymus		Adenocarcinoma	Metastatic (Uterus)
		Atrophy	Marked
* Urinary Bladder		Adenocarcinoma	Metastatic (Uterus)
* Uterus	Endometrium	Adenocarcinoma	
		Inflammation	Suppurative, Moderate
		Polyp Stromal	

Note: Uterine carcinoma has squamous metaplasia in several areas; there is also squamous metaplasia separate from tumor.

[Adenocarcinoma TGLs = 4 - 19]

[Inflammation TGLs = 5 - 14Y]

[Polyp Stromal TGLs = 3 - 18]

PRIMARY CAUSE OF DEATH - Uterus Endometrium Adenocarcinoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 414

TRT#: 8

SEX: Female

DAY ON TEST: 484

DOSE: 10000 ppm female

DISP: Moribund Sacrifice

HISTO: 1301959

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| Vagina | | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|---------------|-------------------------------|------------------|
| * Bone Marrow | | Hypercellularity | Moderate |
| * Liver | | Extramedullary Hematopoiesis | Minimal |
| | | Necrosis | Moderate |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Necrosis | Mild |
| * Spleen | White Pulp | Atrophy | Mild |
| | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Dilation | Moderate |
| | | Hemorrhage | Marked |
| | | Squamous Metaplasia | Mild |

[Hemorrhage TGLs = 1 - 16]

PRIMARY CAUSE OF DEATH - Uterus Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 415

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301960

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | Vagina | |

OBSERVATIONS

- | | | | |
|--------------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex | | Adenoma | |
| | | Degeneration | Cystic, Minimal |
| | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Basophilic Focus | |
| | [Cyst TGLs = 5 - 20] | Cyst | |
| * Lung | [Infiltration Cellular TGLs = 7 - 6+7] | Infiltration Cellular | Histiocyte, Moderate |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | Hyperplasia | Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | Follicle | Cyst | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Marked |
| * Uterus | Endometrium | Adenocarcinoma | |
| | Endometrium | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 415

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301960

ORGAN AND ACCOUNTABLE SITE STATUS

Endometrium

Hyperplasia

Cystic, Mild

Inflammation

Suppurative, Moderate

Polyp Stromal

[Adenoma TGLs = 2 - 17]

[Inflammation TGLs = 3 - 18]

[Polyp Stromal TGLs = 4 - 19]

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 416

TRT#: 8

SEX: Female

DAY ON TEST: 689

DOSE: 10000 ppm female

DISP: Moribund Sacrifice

HISTO: 1301961

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Esophagus
- * Intestine Small, Duodenum
- * Salivary Glands
- * Urinary Bladder
- Blood Vessel
- * Harderian Gland
- * Intestine Small, Ileum
- * Stomach, Forestomach
- Vagina
- * Bone
- * Heart
- * Islets, Pancreatic
- * Stomach, Glandular
- * Clitoral Gland
- * Intestine Large, Rectum
- * Parathyroid Gland
- * Trachea

MISSING

- * Thymus

OBSERVATIONS

- * Adrenal Cortex
 - * Bone Marrow
 - * Brain
 - * Eye
 - * Intestine Large, Cecum
 - * Intestine Large, Colon
 - * Intestine Small, Jejunum
 - * Kidney
 - * Liver
 - Hepatocyte
 - Bile Duct
 - * Lung
 - [Infiltration Cellular TGLs = 4 - 6+7]
 - Lymph Node Lumbar
 - Note: In the lumbar node section, leukemia appears to be predominantly in connective tissue surrounding the ureters.
 - [Leukemia Mononuclear TGLs = 3 - 18]
 - * Lymph Node, Mandibular
 - [Leukemia Mononuclear TGLs = 5 - 12]
 - * Lymph Node, Mesenteric
 - [Leukemia Mononuclear TGLs = 6 - 20]
 - * Mammary Gland
- Leukemia Mononuclear
Hypercellularity
Moderate
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Nephropathy
Chronicprogr, Minimal
- Cytoplasmic Alteration
Mild
- Hyperplasia
Minimal
- Leukemia Mononuclear
- Infiltration Cellular
Histiocyte, Moderate
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 416

TRT#: 8

SEX: Female

DAY ON TEST: 689

DOSE: 10000 ppm female

DISP: Moribund Sacrifice

HISTO: 1301961

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

[Fibroadenoma TGLs = 1 - 16]

* Nose Epithelium

Accumulation, Hyaline Droplet

Marked

* Ovary

Atrophy

Moderate

* Pancreas

Leukemia Mononuclear

* Pituitary Gland

Leukemia Mononuclear

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 2 - 17]

* Skin

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Mild

* Uterus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 417

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301962

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular
- Vagina
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 3 - 6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 5 - 18]
- * Nose
- * Ovary
- * Pituitary Gland
- [Adenoma TGLs = 4 - 17]
- * Spleen
- * Thymus
- * Uterus
- Bile Duct
- Epithelium
- Pars Distalis
- Endometrium
- Endometrium
- [Adenocarcinoma TGLs = 1 - 16]
- [Hyperplasia TGLs = 2 - 14Y]
- Degeneration
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Hyperplasia
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenocarcinoma
- Hyperplasia
- Cystic, Minimal
- Mild
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Moderate
- Minimal
- Mild
- Minimal
- Minimal
- Cystic, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 418

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301963

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | Vagina | |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Mammary Gland | | Hyperplasia | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Ovary | | Atrophy | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Uterus | | Squamous Metaplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 419

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301964

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Clitoral Gland
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Pituitary Gland
- * Stomach, Glandular
- * Thyroid Gland
- Vagina
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Salivary Glands
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Skin
- * Urinary Bladder

OBSERVATIONS

- * Brain
 - Gliosis
 - Necrosis
 - * Heart
 - Cardiomyopathy
 - Schwannoma Malignant
 - * Kidney
 - Nephropathy

[Nephropathy TGLs = 2 - 16]
 - * Liver
 - Bile Duct
 - * Lung
 - Infiltration Cellular

[Infiltration Cellular TGLs = 1 - 6+7]
 - * Nose
 - Epithelium
 - * Ovary
 - Follicle
 - * Parathyroid GI
 - Note: Parathyroid gland only observed in thymus (ectopic).
 - * Spleen
 - Extramedullary Hematopoiesis
 - Pigment
 - * Stomach, Forestomach
 - Inflammation
 - * Thymus
 - Atrophy
 - Ectopic Tissue
 - * Uterus
 - Endometrium
- Accumulation, Hyaline Droplet
 Atrophy
 Cyst
 Chronicprogr, Mild
 Hyperplasia
 Infiltration Cellular
 Minimal
 Histiocyte, Moderate
 Marked
 Moderate
 Mild
 Minimal
 Chronic Active, Minimal
 Marked
 Parathyroid Gland, Mild
 Cystic, Minimal
 Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 420

TRT#: 8

SEX: Female

DAY ON TEST: 683

DOSE: 10000 ppm female

DISP: Natural Death

HISTO: 1301965

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | Vagina | | |

OBSERVATIONS

- | | | | |
|---------------|--|------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Necrosis | Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 421

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301966

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	Vagina		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 1 - 6+7]		
* Mammary Gland		Hyperplasia	Moderate
* Nose	Epithelium	Accumulation, Hyaline Droplet	Marked
* Ovary	Follicle	Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 422

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301967

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thyroid Gland
- * Trachea
- * Urinary Bladder

OBSERVATIONS

- * Bone Marrow Hypercellularity Mild
- * Heart Cardiomyopathy Minimal
- * Intestine Large, Rectum Parasite Metazoan
- * Kidney Nephropathy Chronicprogr, Minimal
- * Liver Clear Cell Focus
- Bile Duct Cyst
- Eosinophilic Focus
- Bile Duct Hyperplasia Minimal
- [Cyst TGLs = 3,4 - 18+19]
- [Eosinophilic Focus TGLs = 2 - 17]
- * Lung Infiltration Cellular Histiocyte, Moderate
- [Infiltration Cellular TGLs = 5 - 6+7]
- * Mammary Gland Fibroadenoma
- [Fibroadenoma TGLs = 1 - 16]
- * Nose Epithelium Accumulation, Hyaline Droplet Marked
- * Ovary Atrophy Moderate
- * Pituitary Gland Pars Distalis Hyperplasia Marked
- * Spleen Extramedullary Hematopoiesis Mild
- Pigment Minimal
- * Thymus Atrophy Mild
- * Uterus Endometrium Hyperplasia Cystic, Mild
- Inflammation Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 422

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301967

ORGAN AND ACCOUNTABLE SITE STATUS

Squamous Metaplasia

Marked

Ulcer

Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 423

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301968

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|--------------------------|--|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 4 - 6+7] | | |
| * Lymph Node, Mandibular | | Hyperplasia | Plasma Cell, Mild |
| | [Hyperplasia TGLs = 1 - 17] | | |
| * Mammary Gland | | Adenocarcinoma | |
| | [Adenocarcinoma TGLs = 2 - 18] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Moderate |
| | Follicle | Cyst | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3 - 11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 424

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301969

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Parathyroid Gland
- * Stomach, Glandular
- Vagina
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Skin
- * Trachea
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Medulla
- * Bone Marrow
- * Liver
- Bile Duct
- * Lung
 - [Infiltration Cellular TGLs = 4 - 6+7]
- * Mammary Gland
 - Note: Mammary adenocarcinoma is also present in section with clitoral gland (B15), and vagina (B14Y).
 - [Adenocarcinoma TGLs = 1,2 - 16+17]
- * Nose
- * Ovary
- * Pituitary Gland
- * Spleen
 - [Extramedullary Hematopoiesis TGLs = 3 - 8]
- * Thymus
- * Uterus
- Hyperplasia
- Hypercellularity
- Basophilic Focus
- Cyst
- Eosinophilic Focus
- Infiltration Cellular
- Adenocarcinoma
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Atrophy
- Hyperplasia
- Hyperplasia
- Squamous Metaplasia
- Focal, Minimal
- Marked
- Histiocyte, Mild
- Marked
- Mild
- Moderate
- Moderate
- Moderate
- Cystic, Minimal
- Atypical, Marked
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 425

TRT#: 8

SEX: Female

DAY ON TEST: 508

DOSE: 10000 ppm female

DISP: Natural Death

HISTO: 1301970

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Kidney
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thyroid Gland
- * Trachea
- * Urinary Bladder
- * Vagina

OBSERVATIONS

- * Bone Marrow
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2 - 6+7]
- * Nose
- * Ovary
- * Spleen
- * Thymus
- * Uterus
- Bile Duct
- Epithelium
- Hypercellularity
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Atrophy
- Extramedullary Hematopoiesis
- Atrophy
- Dilation
- Hemorrhage
- Squamous Metaplasia
- Ulcer
- Marked
- Minimal
- Histiocyte, Moderate
- Granulomatous, Focal, Minimal
- Marked
- Mild
- Moderate
- Moderate
- Marked
- Marked
- Marked
- Marked
- Minimal

[Hemorrhage TGLs = 1 - 16+17]

PRIMARY CAUSE OF DEATH

- Uterus Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 426

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301971

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- Vagina
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 4 - 6+7]
- Lymph Node
- [Adenocarcinoma TGLs = 3 - 18]
- * Mammary Gland
- [Fibroadenoma TGLs = 2 - 17]
- * Nose
- * Ovary
- * Pituitary Gland
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Bile Duct
- Bile Duct
- Renal
- Epithelium
- Pars Distalis
- C Cell
- Endometrium
- Endometrium
- Degeneration
- Hypercellularity
- Nephropathy
- Cyst
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Adenocarcinoma
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Adenocarcinoma
- Hyperplasia
- Hyperplasia
- Cystic, Minimal
- Moderate
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Marked
- Granulomatous, Focal, Minimal
- Metastatic (Uterus)
- Moderate
- Mild
- Mild
- Mild
- Minimal
- Mild
- Cystic, Mild
- Atypical, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 426

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301971

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenocarcinoma TGLs = 1 - 16]

Squamous Metaplasia

Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 427

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301972

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | Vagina | |

OBSERVATIONS

- | | | | |
|---------------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | Follicle | Cyst | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 428

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301973

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| Vagina | | | |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | Renal Tubule | Hyperplasia | Atypical, Minimal |
| | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Polyp Stromal | |
| | | Squamous Metaplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 429

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301974

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	Vagina	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Bone Marrow		Hypercellularity	Mild
* Eye	Retina	Degeneration	Mild
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 1 - 6+7]		
* Nose	Epithelium	Accumulation, Hyaline Droplet	Moderate
* Ovary		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Hyperplasia	Atypical, Minimal
		Squamous Metaplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 430

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301975

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | Vagina | |

MISSING

- * Clitoral Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex | | Inflammation | Chronic, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Mild |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Atypical, Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Hyperplasia | Atypical, Marked |
| | | Inflammation | Suppurative, Moderate |
| | | Squamous Metaplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 431

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301976

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | Vagina | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---------------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Cyst | |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 5 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2 - 16+17] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Moderate |
| | | Dilation | Moderate |
| | [Dilation TGLs = 4 - 19] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3 - 18] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 431

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301976

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Pigment	Minimal
* Thyroid Gland		Atrophy	Minimal
* Uterus	C Cell	Hyperplasia	Minimal
	Endometrium	Adenocarcinoma	
	Endometrium	Hyperplasia	Cystic, Moderate
		Polyp Stromal	Multiple

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 432

TRT#: 8

SEX: Female

DAY ON TEST: 710

DOSE: 10000 ppm female

DISP: Natural Death

HISTO: 1301977

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular
- Vagina
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Thyroid Gland
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Skin
- * Trachea
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
- [Cyst TGLs = 3 - 16]
- * Lung
- [Infiltration Cellular TGLs = 4 - 6+7]
- * Nose
- * Ovary
- * Pituitary Gland
- * Spleen
- * Thymus
- * Uterus
- [Adenocarcinoma TGLs = 2 - 14Y+14Z]
- [Dilation TGLs = 1 - 14Y+14Z]
- Degeneration
- Hypercellularity
- Nephropathy
- Cyst
- Hyperplasia
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Hyperplasia
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenocarcinoma
- Dilation
- Cystic, Minimal
- Moderate
- Chronicprogr, Minimal
- Mild
- Histiocyte, Mild
- Marked
- Mild
- Mild
- Minimal
- Mild
- Moderate
- Minimal
- Mild
- Marked

PRIMARY CAUSE OF DEATH - Uterus Endometrium Adenocarcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 433

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 10000 ppm female

DISP: Natural Death

HISTO: 1301978

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------------------------|------------|-------------------------------|---|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Moderate |
| * Lung | | Cyst | Squamous, Multiple |
| | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Mild |
| Note: Keratinizing epidermoid cyst. | | | |
| | | | [Cyst TGLs = 7 - 21] |
| | | | [Infiltration Cellular TGLs = 6 - 6+7] |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | | Hyperplasia | Moderate |
| | | | [Fibroadenoma TGLs = 1,2,3,4 - 16+17+18+19] |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | Follicle | Cyst | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 433

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 10000 ppm female

DISP: Natural Death

HISTO: 1301978

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 434

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301979

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | Vagina | |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Mammary Gland | | Hyperplasia | Moderate |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 435

TRT#: 8

SEX: Female

DAY ON TEST: 665

DOSE: 10000 ppm female

DISP: Moribund Sacrifice

HISTO: 1301980

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular
- Vagina
- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder

OBSERVATIONS

- * Bone Marrow
- * Kidney
- * Liver
- [Cyst TGLs = 3 - 18]
- * Lung
- [Infiltration Cellular TGLs = 5 - 6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1,2 - 16+17]
- * Nose
- * Ovary
- * Pituitary Gland
- * Spleen
- * Thymus
- * Uterus
- [Squamous Metaplasia TGLs = 4 - 19]
- Renal Tubule
- Bile Duct
- Hepatocyte
- Hepatocyte
- Hypercellularity
- Hyperplasia
- Cyst
- Cytoplasmic Alteration
- Eosinophilic Focus
- Hypertrophy
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Atrophy
- Squamous Metaplasia
- Marked
- Minimal
- Minimal
- Mild
- Histiocyte, Mild
- Multiple
- Moderate
- Moderate
- Moderate
- Mild
- Marked

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 436

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301981

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Parathyroid Gland
- * Stomach, Glandular
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thymus
- Vagina
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Skin
- * Thyroid Gland
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Forestomach
- * Trachea

OBSERVATIONS

- * Adrenal Cortex [Angiectasis TGLs = 1 - 16]
- * Bone Marrow
- * Liver
- Bile Duct
- Bile Duct
- [Mixed Cell Focus TGLs = 2 - 17]
- * Lung [Infiltration Cellular TGLs = 5 - 6+7]
- * Mammary Gland [Fibroadenoma TGLs = 3,4 - 18+19]
- * Nose Epithelium
- * Ovary
- Follicle
- * Pituitary Gland Pars Distalis
- * Spleen
- * Uterus Endometrium
- Angiectasis
- Hypercellularity
- Basophilic Focus
- Cyst
- Eosinophilic Focus
- Hyperplasia
- Mixed Cell Focus
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Inflammation
- Moderate
- Mild
- Minimal
- Histiocyte, Moderate
- Multiple
- Mild
- Mild
- Minimal
- Mild
- Minimal
- Cystic, Mild
- Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 436

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301981

ORGAN AND ACCOUNTABLE SITE STATUS

Squamous Metaplasia

Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 437

TRT#: 8

SEX: Female

DAY ON TEST: 634

DOSE: 10000 ppm female

DISP: Natural Death

HISTO: 1301982

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| Blood Vessel | * Bone | * Clitoral Gland | * Esophagus |
| * Eye | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|------------------------|--|-----------------------|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Hypercellularity | Marked |
| * Brain | | Hemorrhage | Mild |
| | | Leukemia Mononuclear | |
| * Harderian Gland | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | | Leukemia Mononuclear | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Leukemia Mononuclear | |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 3 - 17] | | |
| * Ovary | | Atrophy | Moderate |
| | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| * Spleen | | Hemorrhage | Marked |
| | | Leukemia Mononuclear | |
| | [Hemorrhage TGLs = 2 - 16] | | |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Minimal |
| * Thymus | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 437

TRT#: 8

SEX: Female

DAY ON TEST: 634

DOSE: 10000 ppm female

DISP: Natural Death

HISTO: 1301982

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Squamous Metaplasia

Moderate

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Spleen Hemorrhage

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 438

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301983

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Small, Duodenum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Pituitary Gland
- * Stomach, Forestomach
- * Stomach, Glandular
- * Urinary Bladder
- Vagina
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Thyroid Gland
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Pancreas
- * Skin
- * Trachea

OBSERVATIONS

- * Intestine Large, Rectum
- * Kidney
- * Liver
- Bile Duct
- Bile Duct
- [Cyst TGLs = 2,3,4,6 - 18+19+20+21]
- * Lung
- [Infiltration Cellular TGLs = 5 - 6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1 - 17]
- * Nose
- * Ovary
- * Spleen
- * Thymus
- * Uterus
- Epithelium
- Endometrium
- Parasite Metazoan
- Nephropathy
- Cyst
- Hyperplasia
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Hyperplasia
- Squamous Metaplasia
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Marked
- Mild
- Mild
- Minimal
- Mild
- Cystic, Minimal
- Atypical, Mild
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 439

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301984

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	Vagina

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Hypercellularity	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Bile Duct	Cyst	
	Hepatocyte	Cytoplasmic Alteration	Minimal
	Hepatocyte	Eosinophilic Focus	
	[Cyst TGLs = 1,2,3 - 16+17+18]	Hypertrophy	Minimal
* Lung	[Infiltration Cellular TGLs = 4 - 6+7]	Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Minimal
* Nose	Epithelium	Accumulation, Hyaline Droplet	Minimal
* Ovary	Follicle	Atrophy	Mild
		Cyst	
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Hyperplasia	Atypical, Mild
		Squamous Metaplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 440

TRT#: 8

SEX: Female

DAY ON TEST: 225

DOSE: 10000 ppm female

DISP: Moribund Sacrifice

HISTO: 1301985

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | Vagina | | |

OBSERVATIONS

- | | | | |
|---------------|--|-------------------------------|---------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Minimal |
| * Skin | Subcut Tiss | Sarcoma | |
| | [Sarcoma TGLs = 1 - 16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Marked |
| | [Extramedullary Hematopoiesis TGLs = 2 - 17] | | |
| * Thymus | | Atrophy | Minimal |
| | [Atrophy TGLs = 3 - 6] | | |

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 441

TRT#: 8

SEX: Female

DAY ON TEST: 725

DOSE: 10000 ppm female

DISP: Moribund Sacrifice

HISTO: 1301986

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|---------------------------|--|-------------------------------|-----------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hypercellularity | Marked |
| * Eye | Retina | Degeneration | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 3 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2 - 16+17] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Moderate |
| | Follicle | Cyst | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Uterus | | Inflammation | Suppurative, Marked |
| | | Squamous Metaplasia | Marked |
| | [Inflammation TGLs = 4- 14Y+14Z] | | |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 442

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301987

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Clitoral Gland | * Esophagus |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Trachea |
| * Urinary Bladder | Vagina | | |

OBSERVATIONS

- | | | | |
|----------------------------|----------------------|-------------------------------|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Hypercellularity | Marked |
| * Brain | | Hemorrhage | Minimal |
| * Eye | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Large, Colon | Lymphoid Tiss | Hyperplasia | Moderate |
| * Intestine Small, Jejunum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | Bile Duct | Cyst | |
| | | Leukemia Mononuclear | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear | TGLs = 7 - 6+7] | | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Renal | Leukemia Mononuclear | |
| [Leukemia Mononuclear | TGLs = 5,6 - 20+21] | | |
| [Leukemia Mononuclear | TGLs = 3 - 18] | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| [Leukemia Mononuclear | TGLs = 1 - 16] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear | TGLs = 4 - 19] | | |
| * Mammary Gland | | Hyperplasia | Moderate |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 442

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301987

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary	Follicle	Cyst
		Leukemia Mononuclear
* Pituitary Gland	Pars Distalis	Adenoma
		Leukemia Mononuclear
	[Adenoma TGLs = 8 - 22]	
* Spleen		Leukemia Mononuclear
	[Leukemia Mononuclear TGLs = 2 - 17]	
* Stomach, Glandular		Leukemia Mononuclear
* Thymus		Leukemia Mononuclear
* Thyroid Gland	C Cell	Adenoma
		Leukemia Mononuclear
* Uterus		Leukemia Mononuclear

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 443

TRT#: 8

SEX: Female

DAY ON TEST: 555

DOSE: 10000 ppm female

DISP: Natural Death

HISTO: 1301988

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Liver | | Necrosis | Moderate |
| * Lung | [Infiltration Cellular TGLs = 2 - 6+7] | Infiltration Cellular | Histiocyte, Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Necrosis | Mild |
| * Salivary Glands | | Necrosis | Mild |
| * Spleen | White Pulp | Atrophy | Moderate |
| | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Moderate |
| * Uterus | | Dilation | Marked |
| | | Inflammation | Suppurative, Moderate |
| | [Inflammation TGLs = 1 - 16] | | |

PRIMARY CAUSE OF DEATH - Uterus Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 444

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301989

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|-------------------|---|-------------------------------|-------------------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Basophilic Focus | |
| | | Cyst | |
| | | Eosinophilic Focus | |
| | Bile Duct | Hepatocellular Adenoma | |
| | | Hyperplasia | Minimal |
| | [Cyst TGLs = 3,4,5,6 - 18+19+20+21] | | |
| | [Hepatocellular Adenoma TGLs = 2 - 16] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 7 - 6+7] | | |
| Lymph Node | Lumbar | Hyperplasia | Plasma Cell, Moderate |
| | [Hyperplasia TGLs = 11 - 25] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,9,10 - 17+23+24] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 8 - 22] | | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 444

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301989

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

Hyperplasia

Atypical, Minimal

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 445

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301990

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|----------------------|--|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| * Lung | Bile Duct | Hyperplasia | Minimal |
| | Alveolus, Epithelium | Hyperplasia | Mild |
| | | Infiltration Cellular | Histiocyte, Marked |
| | | Inflammation | Chronic Active, Mild |
| | [Infiltration Cellular TGLs = 4 - 6+7] | | |
| | [Inflammation TGLs = 3 - 7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2 - 17] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5 - 16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Uterus | | Dilation | Marked |
| | | Squamous Cell Carcinoma | |
| | | Squamous Metaplasia | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 445

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301990

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilation TGLs = 1 - 14Z+18]

[Squamous Cell Carcinoma TGLs = 6 - 14Y+18+19]

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 446

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301991

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	Vagina

OBSERVATIONS

* Bone Marrow		Hypercellularity	Marked
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Cyst	
	Bile Duct	Hyperplasia	Minimal
	[Cyst TGLs = 2 - 17]		
* Lung		Infiltration Cellular	Histiocyte, Marked
	[Infiltration Cellular TGLs = 3 - 6+7]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
	[Hemorrhage TGLs = 5 - 9]		
* Mammary Gland		Fibroadenoma	
* Nose	Epithelium	Accumulation, Hyaline Droplet	Marked
* Ovary		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4 - 11]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Moderate
* Uterus		Squamous Metaplasia	Marked
	[Squamous Metaplasia TGLs = 1 - 16]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 447

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| Vagina | | | |

OBSERVATIONS

- | | | | |
|-----------------|--|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Cyst | |
| | | Eosinophilic Focus | |
| | [Cyst TGLs = 1,2 - 16+17] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 3 - 6+7] | | |
| * Mammary Gland | | Hyperplasia | Minimal |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 448

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301993

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Liver
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular
- Vagina
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Thyroid Gland
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Skin
- * Trachea

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Lung
- Note: Cystic keratinizing epithelioma - portion also present in B07.
 [Cyst TGLs = 3 - 17]
 [Infiltration Cellular TGLs = 2 - 6+7]
- * Nose
- * Ovary
- Oviduct
- [Carcinoma TGLs = 1 - 16]
- * Pituitary Gland
- * Spleen
- * Thymus
- * Uterus
- Hyperplasia
- Hypercellularity
- Nephropathy
- Cyst
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Carcinoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Metaplasia
- Squamous Metaplasia
- Focal, Minimal
- Mild
- Chronicprogr, Minimal
- Squamous
- Histiocyte, Moderate
- Marked
- Mild
- Mild
- Mild
- Marked
- Cystic, Minimal
- Cartilagenous, Minimal
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 449

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301994

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Nose
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach, Glandular
- * Thymus
- * Thyroid Gland
- * Trachea
- * Urinary Bladder
- Vagina

OBSERVATIONS

- * Bone Marrow: Hypercellularity, Mild
- * Kidney: Nephropathy, Chronicprogr, Minimal
- * Liver: Clear Cell Focus
- Bile Duct: Cyst
- Bile Duct: Dilation, Moderate
- Bile Duct: Eosinophilic Focus
- Bile Duct: Hyperplasia, Moderate
- * Lung: [Dilation TGLs = 3 - 18], Infiltration Cellular, Histocyte, Moderate
- * Lung: [Infiltration Cellular TGLs = 4 - 6+7], Inflammation, Granulomatous, Focal, Mild
- * Mammary Gland: Fibroadenoma
- * Mammary Gland: [Fibroadenoma TGLs = 2 - 17]
- * Ovary: Atrophy, Mild
- * Ovary: [Cyst TGLs = 1 - 16], Follicle, Cyst
- * Pituitary Gland: Pars Distalis, Hyperplasia, Marked
- * Spleen: Extramedullary Hematopoiesis, Mild
- * Spleen: Pigment, Mild
- * Stomach, Forestomach: Foreign Body
- * Stomach, Forestomach: Epithelium, Hyperplasia, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 449

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 10000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301994

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Inflammation

Hyperplasia

Hyperplasia

Inflammation

Polyp Stromal

Chronic Active, Minimal

Cystic, Moderate

Atypical, Mild

Suppurative, Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 450

TRT#: 8

SEX: Female

DAY ON TEST: 406

DOSE: 10000 ppm female

DISP: Moribund Sacrifice

HISTO: 1301995

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|-----------------|--|-------------------------------|----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Ovary | | Atrophy | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Hyperplasia | Atypical, Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 451

TRT#: 10

SEX: Female

DAY ON TEST: 658

DOSE: 20000 ppm female

DISP: Moribund Sacrifice

HISTO: 1301996

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland
- Vagina
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Ovary
- * Stomach, Forestomach
- * Urinary Bladder
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Glandular
- * Uterus

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Adrenal Cortex
 - [Adenoma TGLs = 5 - 11]
- * Bone Marrow
- * Kidney
- * Liver
 - [Cyst TGLs = 2,3 - 18+19]
- * Lung
 - [Infiltration Cellular TGLs = 4 - 6+7]
- Lymph Node
 - [Hyperplasia TGLs = 7 - 16]
- * Mammary Gland
 - [Fibroadenoma TGLs = 1 - 17]
- * Nose
- * Pituitary Gland
- * Spleen
- Bile Duct
- Hepatocyte
- Axillary
- Epithelium
- Pars Distalis
- Adenoma
- Angiectasis
- Hypercellularity
- Nephropathy
- Cyst
- Necrosis
- Regeneration
- Infiltration Cellular
- Hyperplasia
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Inflammation
- Hyperplasia
- Extramedullary Hematopoiesis
- Mild
- Marked
- Chronicprogr, Minimal
- Mild
- Minimal
- Histiocyte, Minimal
- Plasma Cell, Mild
- Moderate
- Acute, Minimal
- Mild
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 451

TRT#: 10

SEX: Female

DAY ON TEST: 658

DOSE: 20000 ppm female

DISP: Moribund Sacrifice

HISTO: 1301996

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 452

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301997

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Pancreas
- * Pituitary Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thyroid Gland
- * Trachea
- * Urinary Bladder
- Vagina

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Bone Marrow
 - * Kidney
 - * Liver
 - * Lung
 - * Mammary Gland
 - * Nose
 - * Ovary
 - * Spleen
 - * Thymus
- Pelvis
- Bile Duct
- [Cholangioma TGLs = 4 - 19]
- [Cyst TGLs = 2,3,5 - 17+18+20]
- [Infiltration Cellular TGLs = 6 - 6+7]
- [Fibroadenoma TGLs = 1 - 16]
- Epithelium
- Hypercellularity
- Inflammation
- Nephropathy
- Basophilic Focus
- Cholangioma
- Cyst
- Eosinophilic Focus
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Extramedullary Hematopoiesis
- Infarct
- Pigment
- Atrophy
- Mild
- Chronic Active, Mild
- Chronicprogr, Minimal
- Histiocyte, Marked
- Moderate
- Moderate
- Mild
- Minimal
- Minimal
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 452

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301997

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Inflammation

Suppurative, Mild

Squamous Metaplasia

Minimal

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 453

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301998

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| Vagina | | | |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|--------------------|
| * Heart | | Mineral | Minimal |
| * Kidney | | Inflammation | Suppurative, Mild |
| * Liver | Bile Duct | Cyst | |
| | Bile Duct | Hyperplasia | Minimal |
| | [Cyst TGLs = 1 - 16] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Mild |
| | Follicle | Cyst | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Inflammation | Suppurative, Mild |
| | | Squamous Cell Papilloma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 454

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1301999

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

OBSERVATIONS

- | | | | |
|-----------------|--|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Cyst | |
| | | Mixed Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | [Infiltration Cellular TGLs = 3 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | | Hyperplasia | Mild |
| | [Fibroadenoma TGLs = 1,2 - 16+17] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Moderate |

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 455

TRT#: 10

SEX: Female

DAY ON TEST: 600

DOSE: 20000 ppm female

DISP: Natural Death

HISTO: 1302000

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|----------------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Ectopic Thyroid | Mild |
| | | Ectopic Tissue | Parathyroid Gland, Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Marked |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Squamous Metaplasia | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 456

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302001

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Skin
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Forestomach
- Vagina
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Liver
- * Parathyroid Gland
- * Stomach, Glandular

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Focal, Minimal
- * Bone Marrow
 - Hypertrophy
 - Focal, Minimal
- * Heart
 - Hypercellularity
 - Mild
- * Kidney
 - Cardiomyopathy
 - Minimal
- * Lung
 - Histiocytic Sarcoma
 - Nephropathy
 - Infiltration Cellular
 - Chronicprogr, Minimal
 - Histiocyte, Mild
- [Infiltration Cellular TGLs = 3 - 6+7]
- * Mammary Gland
 - Fibroadenoma
 - Hyperplasia
 - Minimal
- [Fibroadenoma TGLs = 1 - 17]
- * Nose
 - Epithelium
 - Accumulation, Hyaline Droplet
 - Mild
- * Ovary
 - Follicle
 - Cyst
- * Pituitary Gland
 - Pars Distalis
 - Hyperplasia
 - Minimal
- * Spleen
 - Extramedullary Hematopoiesis
 - Mild
 - Pigment
 - Minimal
- * Thymus
 - Atrophy
 - Moderate
- * Thyroid Gland
 - C Cell
 - Adenoma
 - C Cell
 - Hyperplasia
 - Mild
- * Uterus
 - Cyst
 - Squamous
 - Hyperplasia
 - Atypical, Minimal
- [Cyst TGLs = 2 - 14Y+14Z]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 457

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

MISSING

- * Clitoral Gland

OBSERVATIONS

- | | | | |
|------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Cyst | |
| | | Eosinophilic Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Hyperplasia | Moderate |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLs = 1 - 16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| * Thymus | | Atrophy | Mild |
| * Uterus | Cervix | Inflammation | Suppurative, Mild |
| | Cervix | Necrosis | Mild |
| | | Polyp Stromal | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 458

TRT#: 10

SEX: Female

DAY ON TEST: 580

DOSE: 20000 ppm female

DISP: Natural Death

HISTO: 1302003

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | Vagina | |

OBSERVATIONS

- | | | | |
|-------------------------------------|------------|-------------------------------|-------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Liver | | Pigment | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| Lymph Node | Axillary | Hyperplasia | Plasma Cell, Mild |
| [Hyperplasia TGLs = 3 - 18] | | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| [Fibroadenoma TGLs = 1,2 - 16+17] | | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Marked |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 459

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Parathyroid Gland
- * Stomach, Glandular
- Vagina
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Skin
- * Trachea

OBSERVATIONS

- * Adrenal Cortex
- * Liver
- [Hepatodiaphragmatic Nodule TGLs = 3 - 18]
- * Lung
- [Infiltration Cellular TGLs = 4 - 6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1,2 - 16+17]
- * Nose
- * Ovary
- * Pituitary Gland
- [Adenoma TGLs = 5 - 19]
- * Spleen
- * Thymus
- * Uterus
- Bile Duct
- Hypertrophy
- Clear Cell Focus
- Eosinophilic Focus
- Hepatodiaphragmatic Nodule
- Hyperplasia
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Cyst
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Ectopic Tissue
- Polyp Stromal
- Focal, Minimal
- Minimal
- Histiocyte, Moderate
- Multiple
- Marked
- Mild
- Minimal
- Minimal
- Marked
- Parathyroid Gland, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 460

TRT#: 10

SEX: Female

DAY ON TEST: 602

DOSE: 20000 ppm female

DISP: Natural Death

HISTO: 1302005

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|-------------------|---|---------------------------------|-----------------------|
| * Adrenal Cortex | | Granulosa-Theca Tumor Malignant | Metastatic (Ovary) |
| | | Necrosis | Marked |
| * Adrenal Medulla | | Necrosis | Marked |
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Infarct | Mild |
| | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 8 - 6+7] | | |
| Lymph Node | Pancreatic | Granulosa-Theca Tumor Malignant | Metastatic (Ovary) |
| | Renal | Granulosa-Theca Tumor Malignant | Metastatic (Ovary) |
| | Inguinal | Granulosa-Theca Tumor Malignant | Metastatic (Ovary) |
| | Mediastinal | Granulosa-Theca Tumor Malignant | Metastatic (Ovary) |
| | Lumbar | Granulosa-Theca Tumor Malignant | Metastatic (Ovary) |
| | [Granulosa-Theca Tumor Malignant TGLs = 5 - 20] | | |
| | [Granulosa-Theca Tumor Malignant TGLs = 3 - 18] | | |
| | [Granulosa-Theca Tumor Malignant TGLs = 7 - 6] | | |
| | [Granulosa-Theca Tumor Malignant TGLs = 4 - 19] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| Mesentery | | Granulosa-Theca Tumor Malignant | Metastatic (Ovary) |
| | [Granulosa-Theca Tumor Malignant TGLs = 6 - 21] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 460

TRT#: 10

SEX: Female

DAY ON TEST: 602

DOSE: 20000 ppm female

DISP: Natural Death

HISTO: 1302005

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary		Granulosa-Theca Tumor Malignant	
	[Granulosa-Theca Tumor Malignant TGLs = 2 - 17]		
* Pancreas		Granulosa-Theca Tumor Malignant	Metastatic (Ovary)
* Spleen	White Pulp	Atrophy	Mild
		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Thymus		Atrophy	Marked
* Uterus	Endometrium	Granulosa-Theca Tumor Malignant	Metastatic (Ovary)
		Squamous Metaplasia	Minimal

PRIMARY CAUSE OF DEATH - Ovary Granulosa-Theca Tumor Malignant

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 461

TRT#: 10

SEX: Female

DAY ON TEST: 673

DOSE: 20000 ppm female

DISP: Natural Death

HISTO: 1302006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Thyroid Gland
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Mammary Gland
- * Salivary Glands
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Skin
- Vagina
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular

MISSING

- * Adrenal Medulla

OBSERVATIONS

- * Bone Marrow
 - Hypercellularity
 - Marked
- * Kidney
 - Adenocarcinoma
 - Metastatic (Uterus)
- [Adenocarcinoma TGLs = 6,7,8,9 - 8+20+21]
- * Liver
 - Adenocarcinoma
 - Metastatic (Uterus)
 - Necrosis
 - Moderate
 - Pigment
 - Minimal
 - Infiltration Cellular
 - Histiocyte, Mild
- * Lung
 - [Infiltration Cellular TGLs = 13 - 6+7]
 - Lymph Node
 - Renal
 - Adenocarcinoma
 - Metastatic (Uterus)
 - Pancreatic
 - Adenocarcinoma
 - Metastatic (Uterus)
 - [Adenocarcinoma TGLs = 5 - 19]
 - [Adenocarcinoma TGLs = 4 - 18]
- * Lymph Node, Mesenteric
 - Adenocarcinoma
 - Metastatic (Uterus)
- Mesentery
 - Adenocarcinoma
 - Metastatic (Uterus)
- [Adenocarcinoma TGLs = 10,11,12,14 - 22+23+24+25]
- * Nose
 - Epithelium
 - Accumulation, Hyaline Droplet
 - Mild
- * Ovary
 - Adenocarcinoma
 - Metastatic (Uterus)
 - Atrophy
 - Marked
- * Spleen
 - White Pulp
 - Atrophy
 - Moderate
 - Extramedullary Hematopoiesis
 - Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 461

TRT#: 10

SEX: Female

DAY ON TEST: 673

DOSE: 20000 ppm female

DISP: Natural Death

HISTO: 1302006

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

Adenocarcinoma

Metastatic (Uterus)

* Thymus

Atrophy

Marked

* Urinary Bladder

Adenocarcinoma

Metastatic (Uterus)

* Uterus

Endometrium

Adenocarcinoma

[Adenocarcinoma TGLs = 2,3 - 16+17]

PRIMARY CAUSE OF DEATH

- Uterus Endometrium Adenocarcinoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 462

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302007

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Marked |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Heart | | Schwannoma Malignant | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | [Infiltration Cellular TGLs = 4 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,3 - 17+18+19] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Mild |
| | Follicle | Cyst | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5 - 11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Hyperplasia | Atypical, Minimal |
| | | Squamous Metaplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 463

TRT#: 10

SEX: Female

DAY ON TEST: 616

DOSE: 20000 ppm female

DISP: Moribund Sacrifice

HISTO: 1302008

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|-----------------|--|-------------------------------|--------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1- 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Atrophy | Moderate |
| | Follicle | Cyst | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thymus | | Atrophy | Mild |
| * Uterus | | Squamous Metaplasia | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 464

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302009

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Pancreas
- * Parathyroid Gland
- * Stomach, Forestomach
- * Stomach, Glandular
- * Urinary Bladder
- * Uterus
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland
- Vagina
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Trachea

OBSERVATIONS

- * Kidney Nephropathy Chronicprogr, Minimal
- * Liver Eosinophilic Focus
- Bile Duct Hyperplasia Minimal
- * Lung Infiltration Cellular Histiocyte, Mild
[Infiltration Cellular TGLs = 2 - 6+7]
- * Mammary Gland Fibroadenoma
Hyperplasia Mild
[Fibroadenoma TGLs = 1- 16]
- * Nose Epithelium Accumulation, Hyaline Droplet Mild
- * Ovary Atrophy Mild
- Paraovarian Cyst Mild
- Granulosa Cell Hyperplasia Mild
- [Cyst TGLs = 3 - 14]
- * Pituitary Gland Pars Distalis Hyperplasia Marked
- * Spleen Extramedullary Hematopoiesis Mild
- Pigment Mild
- * Thymus Atrophy Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 465

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302010

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Kidney
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Forestomach
- * Stomach, Glandular
- * Trachea
- * Urinary Bladder
- Vagina

OBSERVATIONS

- * Adren Cortex
 - Note: 4 sections of adrenal gland are on slide 11, all within normal limits.
- * Adren Medulla
 - Note: 4 sections of adrenal gland are on slide 11, all within normal limits.
- * Bone Marrow
 - Hypercellularity
 - Moderate
- * Liver
 - Eosinophilic Focus
- * Lung
 - Infiltration Cellular
 - TGLs = 2,3 - 6+7
 - Histiocyte, Mild
- * Nose
 - Epithelium
 - Accumulation, Hyaline Droplet
 - Moderate
- * Ovary
 - Follicle
 - Atrophy
 - Mild
 - Cyst
- * Pituitary Gland
 - Pars Distalis
 - Adenoma
- * Skin
 - Subcut Tiss
 - Fibroma
- * Spleen
 - [Fibroma TGLs = 1 - 16]
 - Extramedullary Hematopoiesis
 - Mild
- * Thymus
 - Atrophy
 - Mild
- * Thyroid Gland
 - C Cell
 - Adenoma
- * Uterus
 - Inflammation
 - Squamous Metaplasia
 - Suppurative, Mild
 - Moderate

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 466

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular
- Vagina
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Thyroid Gland
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Skin
- * Trachea
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
- Bile Duct
- Bile Duct
- [Cyst TGLs = 2 - 12]
- * Lung
- [Infiltration Cellular TGLs = 1 - 6+7]
- * Nose
- * Ovary
- * Pituitary Gland
- * Spleen
- * Thymus
- * Uterus
- Hypertrophy
- Hypercellularity
- Nephropathy
- Clear Cell Focus
- Cyst
- Eosinophilic Focus
- Hyperplasia
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Inflammation
- Polyp Stromal
- Focal, Mild
- Mild
- Chronicprogr, Minimal
- Minimal
- Minimal
- Histiocyte, Mild
- Moderate
- Mild
- Mild
- Mild
- Mild
- Minimal
- Cystic, Mild
- Atypical, Mild
- Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 466

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302011

ORGAN AND ACCOUNTABLE SITE STATUS

Squamous Metaplasia

Minimal

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 467

TRT#: 10

SEX: Female

DAY ON TEST: 584

DOSE: 20000 ppm female

DISP: Moribund Sacrifice

HISTO: 1302012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Ovary
- * Salivary Glands
- * Thyroid Gland
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Liver
- * Pancreas
- * Skin
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Forestomach
- * Urinary Bladder
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Stomach, Glandular
- Vagina

MISSING

- * Thymus

OBSERVATIONS

- * Adrenal Cortex [Hypertrophy TGLs = 3 - 11] Hypertrophy Focal, Mild
- * Bone Marrow Hypercellularity Moderate
- * Lung Adenocarcinoma Metastatic (Mammary Gland)
- [Infiltration Cellular TGLs = 4 - 6+7] Infiltration Cellular Histocyte, Marked
- [Inflammation TGLs = 4 - 6+7] Inflammation Acute, Moderate
- * Mammary Gland Adenocarcinoma Adenocarcinoma
- [Adenocarcinoma TGLs = 1 - 16] Adenocarcinoma
- * Nose Epithelium Accumulation, Hyaline Droplet Moderate
- * Spleen Extramedullary Hematopoiesis Extramedullary Hematopoiesis Marked
- [Extramedullary Hematopoiesis TGLs = 2 - 17] Extramedullary Hematopoiesis
- * Uterus Endometrium Hyperplasia Cystic, Mild
- Hyperplasia Atypical, Mild
- Polyp Stromal

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 468

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Stomach, Glandular
- Vagina
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Thyroid Gland
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Skin
- * Trachea
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Forestomach
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
- [Cyst TGLs = 3 - 12]
- * Lung
- [Infiltration Cellular TGLs = 2 - 6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1 - 16]
- * Nose
- * Ovary
- * Spleen
- * Thymus
- * Uterus
- Bile Duct
- Hepatocyte
- Bile Duct
- Epithelium
- Endometrium
- Hypertrophy
- Hypercellularity
- Nephropathy
- Cyst
- Cytoplasmic Alteration
- Eosinophilic Focus
- Hyperplasia
- Mixed Cell Focus
- Pigment
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Hyperplasia
- Focal, Minimal
- Mild
- Chronicprogr, Minimal
- Minimal
- Minimal
- Minimal
- Histiocyte, Mild
- Marked
- Mild
- Minimal
- Minimal
- Moderate
- Cystic, Mild
- Atypical, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 468

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302013

ORGAN AND ACCOUNTABLE SITE STATUS

Polyp Stromal

Squamous Metaplasia

Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 469

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | Vagina | | |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Mixed Cell Focus | |
| | | Pigment | Minimal |
| | [Hepatocellular Adenoma TGLs = 1 - 16] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 3 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2 - 11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |
| * Uterus | | Squamous Metaplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 470

TRT#: 10

SEX: Female

DAY ON TEST: 402

DOSE: 20000 ppm female

DISP: Natural Death

HISTO: 1302015

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |
| Vagina | | | |

OBSERVATIONS

- | | | | |
|---------------|--|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Brain | | Oligodendroglioma Malignant | |
| | [Oligodendroglioma Malignant TGLs = 1 - 3+4+5] | | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Spleen | White Pulp | Atrophy | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Brain Oligodendroglioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 471

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	Vagina

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hypercellularity	Mild
* Kidney		Inflammation	Suppurative, Minimal
		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
	[Cytoplasmic Alteration TGLs = 2 - 16]	Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Marked
	[Infiltration Cellular TGLs = 1 - 6+7]	Inflammation	Granulomatous, Focal, Minimal
* Nose	Epithelium	Accumulation, Hyaline Droplet	Mild
* Ovary		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Hyperplasia	Atypical, Moderate
		Squamous Metaplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 472

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302017

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | Vagina | |

OBSERVATIONS

- | | | | |
|-----------------|--|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| | | Pigment | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Pigment | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | | Hyperplasia | Minimal |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Granulosa Cell Tumor Benign | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 473

TRT#: 10

SEX: Female

DAY ON TEST: 620

DOSE: 20000 ppm female

DISP: Moribund Sacrifice

HISTO: 1302018

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Parathyroid Gland
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Salivary Glands
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Skin

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
 - [Squamous Cell Carcinoma TGLs = 2,3 - 12]
- * Lung
 - [Infiltration Cellular TGLs = 1 - 6+7]
- Lymph Node
- * Lymph Node, Mandibular
- * Mammary Gland
 - [Fibroadenoma TGLs = 6 - 18]
- Mesentery
- * Nose
- * Ovary
- * Pancreas
 - [Squamous Cell Carcinoma TGLs = 4 - 16]
- * Pituitary Gland
- * Spleen
- * Stomach, Forestomach
- Adenoma
- Hypercellularity
- Squamous Cell Carcinoma
- Squamous Cell Carcinoma
- Infiltration Cellular
- Squamous Cell Carcinoma
- Squamous Cell Carcinoma
- Atrophy
- Hemangioma
- Fibroadenoma
- Squamous Cell Carcinoma
- Accumulation, Hyaline Droplet
- Atrophy
- Squamous Cell Carcinoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Inflammation
- Marked
- Metastatic (Uterus)
- Metastatic (Uterus)
- Histiocyte, Moderate
- Metastatic (Uterus)
- Metastatic (Uterus)
- Mild
- Metastatic (Uterus)
- Moderate
- Mild
- Metastatic (Uterus)
- Mild
- Moderate
- Minimal
- Mild
- Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 473

TRT#: 10

SEX: Female

DAY ON TEST: 620

DOSE: 20000 ppm female

DISP: Moribund Sacrifice

HISTO: 1302018

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	
		Squamous Cell Carcinoma	

Note: Squamous Cell Carcinoma of uterus is also present in B14Y.

[Squamous Cell Carcinoma TGLs = 5 - 17]

Vagina

Squamous Cell Carcinoma

Metastatic (Uterus)

PRIMARY CAUSE OF DEATH - Uterus Squamous Cell Carcinoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 474

TRT#: 10

SEX: Female

DAY ON TEST: 574

DOSE: 20000 ppm female

DISP: Natural Death

HISTO: 1302019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Kidney
- * Skin
- * Urinary Bladder
- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Ileum
- * Mammary Gland
- * Stomach, Glandular
- Vagina
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Thyroid Gland
- * Bone
- * Eye
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Salivary Glands
- * Trachea

OBSERVATIONS

- * Bone Marrow
- * Intestine Small, Duodenum
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 4 - 6+7]
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Nose
- * Ovary
- * Pancreas
- [Adenocarcinoma TGLs = 5 - 17]
- * Pituitary Gland
- Skeletal Muscle
- [Adenocarcinoma TGLs = 6 - 18]
- * Spleen
- * Stomach, Forestomach
- * Thymus
- * Uterus
- Epithelium
- Pars Distalis
- White Pulp
- Endometrium
- Hypercellularity
- Adenocarcinoma
- Adenocarcinoma
- Pigment
- Adenocarcinoma
- Infiltration Cellular
- Atrophy
- Adenocarcinoma
- Accumulation, Hyaline Droplet
- Atrophy
- Adenocarcinoma
- Hyperplasia
- Adenocarcinoma
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Adenocarcinoma
- Atrophy
- Adenocarcinoma
- Moderate
- Metastatic (Uterus)
- Metastatic (Uterus)
- Minimal
- Metastatic (Uterus)
- Histiocyte, Moderate
- Moderate
- Metastatic (Uterus)
- Mild
- Moderate
- Metastatic (Uterus)
- Minimal
- Metastatic (Uterus)
- Minimal
- Mild
- Metastatic (Uterus)
- Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 474

TRT#: 10

SEX: Female

DAY ON TEST: 574

DOSE: 20000 ppm female

DISP: Natural Death

HISTO: 1302019

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenocarcinoma TGLs = 2,3 - 16]

PRIMARY CAUSE OF DEATH

- Uterus Endometrium Adenocarcinoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 475

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- Vagina
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Trachea

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Nose
- * Ovary
- * Pituitary Gland
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Bile Duct
- Bile Duct
- [Cholangioma TGLs = 1,2,3,4,5 - 16+17+18+19+20]
- [Infiltration Cellular TGLs = 6 - 6+7]
- Epithelium
- Pars Distalis
- C Cell
- Endometrium
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Inflammation
- Nephropathy
- Cholangioma
- Cyst
- Eosinophilic Focus
- Hyperplasia
- Pigment
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Adenoma
- Focal, Minimal
- Minimal
- Minimal
- Suppurative, Minimal
- Chronicprogr, Minimal
- Multiple
- Minimal
- Minimal
- Histiocyte, Mild
- Marked
- Moderate
- Moderate
- Mild
- Minimal
- Minimal
- Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 475

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302020

ORGAN AND ACCOUNTABLE SITE STATUS

Endometrium

Hyperplasia

Cystic, Mild

Hyperplasia

Atypical, Mild

Polyp Stromal

Multiple

Squamous Metaplasia

Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 476

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Inflammation | Suppurative, Minimal |
| | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Cyst | |
| | Hepatocyte | Cytoplasmic Alteration | Minimal |
| | | Eosinophilic Focus | |
| | | Pigment | Minimal |
| | [Cyst TGLs = 4 - 17] | | |
| * Lung | Alveolus, Epithelium | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| | | Inflammation | Acute, Minimal |
| * Ovary | | Atrophy | Mild |
| | Follicle | Cyst | |
| | Germinal Epith | Hyperplasia | Minimal |
| | [Cyst TGLs = 3 - 14] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 476

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302021

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

* Thyroid Gland

* Uterus

C Cell

Endometrium

Atrophy

Adenoma

Hyperplasia

Squamous Metaplasia

Mild

Cystic, Moderate

Minimal

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 477

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302022

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Trachea
- * Urinary Bladder
- Vagina

OBSERVATIONS

- * Bone Marrow: Hypercellularity (Minimal)
- * Kidney: Nephropathy (Chronicprogr, Minimal)
- * Liver: Bile Duct Cyst, Eosinophilic Focus, Hepatocellular Adenoma, Hyperplasia (Minimal), Mixed Cell Focus, Pigment (Minimal)
- * Lung: [Hepatocellular Adenoma TGLs = 3 - 17], [Infiltration Cellular TGLs = 2 - 6+7], Infiltration Cellular (Histiocyte, Moderate)
- * Nose: Epithelium Accumulation, Hyaline Droplet (Moderate), Inflammation (Acute, Minimal)
- * Ovary: Atrophy (Moderate)
- * Spleen: Extramedullary Hematopoiesis (Mild), Pigment (Mild)
- * Thymus: Atrophy (Mild)
- * Thyroid Gland: C Cell
- * Uterus: Endometrium Adenocarcinoma, Endometrium Hyperplasia (Cystic, Moderate), Endometrium Inflammation (Suppurative, Moderate)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 477

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302022

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 1 - 14Z]

Squamous Metaplasia

Minimal

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 478

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302023

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone Marrow
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Trachea
- * Urinary Bladder
- * Vagina

OBSERVATIONS

- * Intestine Large, Rectum
- Parasite Metazoan
- * Islets, Pancreatic
- Metaplasia
- * Kidney
- Infarct
- Inflammation
- Nephropathy
- Basophilic Focus
- Cyst
- Eosinophilic Focus
- * Liver
- Bile Duct
- [Cyst TGLs = 1,3 - 16+17]
- [Eosinophilic Focus TGLs = 2,5 - 12+18]
- * Lung
- Infiltration Cellular
- Inflammation
- Histiocyte, Marked
- Granulomatous, Focal, Minimal
- * Nose
- Epithelium
- Accumulation, Hyaline Droplet
- Mild
- * Ovary
- Atrophy
- Mild
- * Pituitary Gland
- Pars Distalis
- Hyperplasia
- Mild
- * Spleen
- Extramedullary Hematopoiesis
- Mild
- Pigment
- Mild
- * Thymus
- Atrophy
- Minimal
- * Thyroid Gland
- C Cell
- Adenoma
- * Uterus
- Endometrium
- Hyperplasia
- Cystic, Moderate
- Squamous Metaplasia
- Minimal
- [Hyperplasia TGLs = 4 - 14Y+14Z]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 479

TRT#: 10

SEX: Female

DAY ON TEST: 618

DOSE: 20000 ppm female

DISP: Natural Death

HISTO: 1302024

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular |
| * Mammary Gland | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- | | |
|-------------------|--------------------------|
| * Adrenal Medulla | * Lymph Node, Mesenteric |
|-------------------|--------------------------|

OBSERVATIONS

- | | | | |
|------------------|--|-------------------------------|---------------------|
| * Adrenal Cortex | | Adenocarcinoma | Metastatic (Uterus) |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Esophagus | | Inflammation | Suppurative, Marked |
| | | Necrosis | Moderate |
| * Kidney | | Adenocarcinoma | Metastatic (Uterus) |
| | Renal Tubule | Hyperplasia | Mild |
| * Lung | | Adenocarcinoma | Metastatic (Uterus) |
| | | Infiltration Cellular | Histiocyte, Marked |
| | [Infiltration Cellular TGLs = 4 - 6+7] | | |
| Lymph Node | Mediastinal | Adenocarcinoma | Metastatic (Uterus) |
| Mesentery | | Adenocarcinoma | Metastatic (Uterus) |
| | [Adenocarcinoma TGLs = 1,2,3 - 17+18] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | | Adenocarcinoma | Metastatic (Uterus) |
| * Pancreas | | Adenocarcinoma | Metastatic (Uterus) |
| Skeletal Muscle | | Adenocarcinoma | Metastatic (Uterus) |
| | [Adenocarcinoma TGLs = 5 - 16] | | |
| * Spleen | White Pulp | Atrophy | Marked |
| | | Pigment | Minimal |
| * Uterus | Endometrium | Adenocarcinoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 479

TRT#: 10

SEX: Female

DAY ON TEST: 618

DOSE: 20000 ppm female

DISP: Natural Death

HISTO: 1302024

ORGAN AND ACCOUNTABLE SITE STATUS

Vagina

Adenocarcinoma

Metastatic (Uterus)

PRIMARY CAUSE OF DEATH

- Uterus Endometrium Adenocarcinoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 480

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Pancreas
- * Parathyroid Gland
- * Stomach, Forestomach
- * Stomach, Glandular
- * Uterus
- * Vagina
- * Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Trachea
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Urinary Bladder

OBSERVATIONS

- * Kidney
 - Renal Tubule
 - Adenoma
 - Nephropathy
- * Liver
 - Bile Duct
 - Clear Cell Focus
 - Cyst
 - Eosinophilic Focus
 - Pigment
 - Infiltration Cellular
- * Lung
 - [Infiltration Cellular TGLs = 1 - 6+7]
 - Chronicprogr, Minimal
 - Minimal
 - Histiocyte, Mild
- * Mammary Gland
 - Hyperplasia
- * Nose
 - Epithelium
 - Accumulation, Hyaline Droplet
- * Ovary
 - Follicle
 - Cyst
- * Pituitary Gland
 - [Cyst TGLs = 2 - 14]
 - Hyperplasia
- * Spleen
 - Pars Distalis
 - Extramedullary Hematopoiesis
 - Pigment
- * Thymus
 - Atrophy
- * Thyroid Gland
 - C Cell
 - Hyperplasia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 481

TRT#: 10

SEX: Female

DAY ON TEST: 622

DOSE: 20000 ppm female

DISP: Natural Death

HISTO: 1302026

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |
| Vagina | | | |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| * Liver | | Pigment | Minimal |
| * Lung | [Infiltration Cellular TGLs = 1 - 6+7] | Infiltration Cellular | Histiocyte, Mild |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2 - 11] | | |
| * Spleen | White Pulp | Atrophy | Moderate |
| | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 482

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302027

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thyroid Gland
- * Trachea
- * Urinary Bladder
- * Vagina

OBSERVATIONS

- * Bone Marrow
- Hypercellularity
- Mild
- * Kidney
- Nephropathy
- Chronicprogr, Minimal
- * Liver
- Clear Cell Focus
- Bile Duct
- Cyst
- Eosinophilic Focus
- Bile Duct
- Hyperplasia
- Minimal
- * Lung
- Pigment
- Minimal
- [Infiltration Cellular TGLs = 1 - 6+7]
- Infiltration Cellular
- Histiocyte, Moderate
- * Nose
- Epithelium
- Accumulation, Hyaline Droplet
- Moderate
- * Ovary
- Atrophy
- Mild
- * Spleen
- Extramedullary Hematopoiesis
- Mild
- Pigment
- Mild
- * Thymus
- Atrophy
- Moderate
- * Uterus
- Endometrium
- Adenocarcinoma
- Endometrium
- Hyperplasia
- Cystic, Mild
- Squamous Metaplasia
- Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 483

TRT#: 10

SEX: Female

DAY ON TEST: 377

DOSE: 20000 ppm female

DISP: Natural Death

HISTO: 1302028

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---------------------------|------------|------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Mineral | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Spleen | White Pulp | Atrophy | Marked |
| | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 484

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302029

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Thyroid Gland
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Trachea
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Mammary Gland
- * Skin
- * Urinary Bladder
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- Vagina

OBSERVATIONS

- * Adrenal Cortex
- * Islets, Pancreatic
- * Kidney
- * Liver
- * Lung
- * Nose
- * Ovary
- * Pituitary Gland
- * Spleen
- Degeneration
- Hyperplasia
- Inflammation
- Nephropathy
- Cholangioma
- Cyst
- Cytoplasmic Alteration
- Eosinophilic Focus
- Hyperplasia
- Pigment
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Inflammation
- Atrophy
- Granulosa Cell Tumor Benign
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Cystic, Minimal
- Minimal
- Suppurative, Minimal
- Chronicprogr, Minimal
- Minimal
- Minimal
- Minimal
- Histiocyte, Mild
- Granulomatous, Focal, Minimal
- Mild
- Acute, Minimal
- Mild
- Minimal
- Mild
- Minimal

[Cholangioma TGLs = 4 - 19]

[Cyst TGLs = 2,3,5 - 17+18+20]

[Infiltration Cellular TGLs = 6 - 6+7]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 484

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302029

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

* Thymus

* Uterus

Endometrium

Endometrium

Mineral

Atrophy

Adenocarcinoma

Cyst

Hyperplasia

Squamous Metaplasia

Minimal

Moderate

Squamous

Cystic, Minimal

Mild

[Cyst TGLs = 1 - 16]

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 485

TRT#: 10

SEX: Female

DAY ON TEST: 596

DOSE: 20000 ppm female

DISP: Moribund Sacrifice

HISTO: 1302030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | Vagina |

OBSERVATIONS

- | | | | |
|------------------|--|-------------------------------|----------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Uterus | | Hyperplasia | Atypical, Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 486

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302031

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Ovary
- * Skin
- Vagina
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Forestomach

OBSERVATIONS

- * Adrenal Cortex
 - * Bone Marrow
 - * Kidney
 - * Liver
 - * Lung
 - [Infiltration Cellular TGLs = 4 - 6+7]
 - * Mammary Gland
 - [Fibroadenoma TGLs = 3 - 18]
 - * Nose
 - * Pituitary Gland
 - * Spleen
 - * Thymus
 - * Thyroid Gland
 - * Urinary Bladder
 - * Uterus
 - [Dilation TGLs = 1,2 - 14Z+16+17+19]
- Epithelium
 - Pars Distalis
 - C Cell
 - Urothelium
 - Cervix
- Degeneration
 - Hypercellularity
 - Nephropathy
 - Clear Cell Focus
 - Eosinophilic Focus
 - Infiltration Cellular
 - Fibroadenoma
 - Hyperplasia
 - Accumulation, Hyaline Droplet
 - Adenoma
 - Extramedullary Hematopoiesis
 - Pigment
 - Atrophy
 - Adenoma
 - Hyperplasia
 - Dilation
 - Inflammation
 - Squamous Metaplasia
- Cystic, Minimal
 - Mild
 - Chronicprogr, Minimal
 - Histiocyte, Mild
 - Mild
 - Moderate
 - Mild
 - Minimal
 - Marked
 - Marked
 - Marked
 - Marked
 - Suppurative, Mild
 - Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 487

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302032

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Glandular
- Vagina
- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Skin
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder

OBSERVATIONS

- * Bone Marrow
- * Kidney
- * Liver
- Bile Duct
- [Cyst TGLs = 2 - 17]
- [Mixed Cell Focus TGLs = 3 - 18]
- * Lung
- [Infiltration Cellular TGLs = 4 - 6+7]
- * Mammary Gland
- [Adenoma TGLs = 1 - 16]
- * Nose
- * Ovary
- * Pituitary Gland
- * Spleen
- * Thymus
- * Uterus
- Epithelium
- Pars Distalis
- Endometrium
- Hypercellularity
- Nephropathy
- Clear Cell Focus
- Cyst
- Eosinophilic Focus
- Mixed Cell Focus
- Pigment
- Infiltration Cellular
- Adenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Moderate
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Minimal
- Marked
- Mild
- Mild
- Mild
- Mild
- Minimal
- Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 487

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302032

ORGAN AND ACCOUNTABLE SITE STATUS

Polyp Stromal

Squamous Metaplasia

Minimal

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 488

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302033

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder
- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular
- Vagina
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Thyroid Gland
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Skin
- * Trachea

OBSERVATIONS

- * Bone Marrow
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2 - 6+7]
- * Nose
- * Ovary
- * Pituitary Gland
- * Spleen
- * Thymus
- * Uterus
- [Adenocarcinoma TGLs = 1 - 14Z+16]
- Hypercellularity
- Nephropathy
- Basophilic Focus
- Eosinophilic Focus
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenocarcinoma
- Squamous Metaplasia
- Moderate
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Moderate
- Moderate
- Moderate
- Moderate
- Mild
- Minimal
- Moderate
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 489

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Trachea
- * Urinary Bladder
- Vagina

MISSING

- * Intestine Large, Cecum

OBSERVATIONS

- * Bone Marrow Hypercellularity Mild
- * Kidney Infarct Minimal
- Nephropathy Chronicprogr, Minimal
- * Liver Basophilic Focus
- Clear Cell Focus
- Bile Duct Cyst
- Bile Duct Hyperplasia Minimal
- Mixed Cell Focus
- Pigment Minimal
- [Cyst TGLs = 3 - 17]
- [Mixed Cell Focus TGLs = 2 - 16]
- * Lung Infiltration Cellular Histiocyte, Moderate
- [Infiltration Cellular TGLs = 4 - 6+7]
- * Nose Epithelium Accumulation, Hyaline Droplet Moderate
- * Ovary Atrophy Mild
- * Spleen Extramedullary Hematopoiesis Mild
- Pigment Mild
- * Thymus Atrophy Mild
- * Thyroid Gland C Cell Hyperplasia Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 489

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302034

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Cervix

Cyst

Squamous

Endometrium

Hyperplasia

Cystic, Mild

Inflammation

Suppurative, Mild

[Cyst TGLs = 1 - 14Z]

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 490

TRT#: 10

SEX: Female

DAY ON TEST: 350

DOSE: 20000 ppm female

DISP: Natural Death

HISTO: 1302035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Clitoral Gland | * Esophagus | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Liver | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |
| Vagina | | | |

MISSING

- | | | | |
|-------------------|-------------------|--------------------------|---------------------|
| * Brain | * Eye | * Lymph Node, Mandibular | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Thyroid Gland | |

OBSERVATIONS

- | | | | |
|---------------|------------|-----------------------|---------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Spleen | White Pulp | Atrophy | Mild |
| | | Pigment | Mild |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 491

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302036

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Esophagus
- * Eye
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Trachea
- * Urinary Bladder
- Vagina

OBSERVATIONS

- * Bone Marrow
- Hypercellularity
- Mild
- * Clitoral Gland
- Duct
- Squamous Cell Papilloma
- [Squamous Cell Papilloma TGLs = 1 - 16]
- * Heart
- Cardiomyopathy
- Minimal
- * Kidney
- Nephropathy
- Chronicprogr, Minimal
- * Liver
- Bile Duct
- Cyst
- Eosinophilic Focus
- Pigment
- Mild
- [Cyst TGLs = 3 - 12+18+19]
- * Lung
- Infiltration Cellular
- Histiocyte, Mild
- [Infiltration Cellular TGLs = 5 - 6+7]
- * Mammary Gland
- Fibroadenoma
- Hyperplasia
- Moderate
- [Fibroadenoma TGLs = 2 - 17]
- * Nose
- Epithelium
- Accumulation, Hyaline Droplet
- Inflammation
- Marked
- Acute, Minimal
- * Ovary
- Atrophy
- Mild
- * Pituitary Gland
- Pars Distalis
- Hyperplasia
- Moderate
- [Hyperplasia TGLs = 4 - 11]
- * Spleen
- Extramedullary Hematopoiesis
- Mild
- Pigment
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 491

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302036

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

* Thyroid Gland

* Uterus

C Cell

Endometrium

Atrophy

Hyperplasia

Hyperplasia

Polyp Stromal

Squamous Metaplasia

Mild

Minimal

Cystic, Moderate

Minimal

[Hyperplasia TGLs = 6 - 14Y]

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 492

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Trachea
- * Urinary Bladder
- * Vagina

OBSERVATIONS

- * Bone Marrow Hypercellularity Mild
- * Intestine Large, Rectum Parasite Metazoan
- * Kidney Nephropathy Chronicprogr, Minimal
- * Liver Bile Duct Cyst
- Eosinophilic Focus TGLs = 2 - 17 Eosinophilic Focus TGLs = 2 - 17
- * Lung Infiltration Cellular Histiocyte, Moderate
- * Mammary Gland Fibroadenoma
- Fibroadenoma TGLs = 1 - 16 Fibroadenoma TGLs = 1 - 16
- * Nose Epithelium Accumulation, Hyaline Droplet Moderate
- * Ovary Atrophy Mild
- * Spleen Extramedullary Hematopoiesis Mild
- Pigment Minimal
- * Thymus Atrophy Minimal
- * Thyroid Gland C Cell Hyperplasia Moderate
- * Uterus Endometrium Hyperplasia Cystic, Minimal
- Polyp Stromal
- Squamous Metaplasia Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 493

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302038

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Forestomach
- Vagina
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Trachea
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Ovary
- * Skin
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Medulla
- * Kidney
- * Liver
- * Lung
 - [Infiltration Cellular TGLs = 1 - 6+7]
- * Mammary Gland
- * Nose
- * Pituitary Gland
 - [Adenoma TGLs = 2 - 11]
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Pheochromocytoma Benign
- Inflammation
- Nephropathy
- Clear Cell Focus
- Pigment
- Infiltration Cellular
- Hyperplasia
- Accumulation, Hyaline Droplet
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Polyp Stromal
- Suppurative, Mild
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Mild
- Moderate
- Mild
- Mild
- Mild
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 494

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302039

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| Vagina | | | |

OBSERVATIONS

- | | | | |
|-------------------|-------------------|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Pigment | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| | | Inflammation | Acute, Minimal |
| * Ovary | | Atrophy | Mild |
| | Paraovarian | Cyst | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | Bilateral, C Cell | Adenoma | |
| | | | |
| | | | |
| | | | |
| * Uterus | | Dilation | Mild |
| | Endometrium | Hyperplasia | Cystic, Marked |
| | Cervix | Inflammation | Suppurative, Moderate |
| | | Inflammation | Suppurative, Marked |
| | | Polyp Stromal | |

[Adenoma TGLs = 3 - 17]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 494

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302039

ORGAN AND ACCOUNTABLE SITE STATUS

Squamous Metaplasia

Mild

Note: Cervical inflammation = abscess with squamous metaplasia or perhaps arose in a squamous cyst or diverticulum.

[Hyperplasia TGLs = 1 - 14Y]

[Inflammation TGLs = 2 - 16]

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 495

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302040

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular
- * Uterus
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Thyroid Gland
- Vagina
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Ovary
- * Skin
- * Trachea

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Liver
- * Lung
- * Mammary Gland
- * Nose
- * Pituitary Gland
- * Spleen
- * Thymus
- Bile Duct
- [Infiltration Cellular TGLs = 2 - 6+7]
- [Fibroadenoma TGLs = 1 - 16]
- Epithelium
- Olfactory Epi
- Pars Distalis
- Hypertrophy
- Hypercellularity
- Clear Cell Focus
- Cyst
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Metaplasia
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Focal, Minimal
- Mild
- Histiocyte, Moderate
- Mild
- Marked
- Squamous, Mild
- Minimal
- Mild
- Mild
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 496

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302041

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	Vagina

OBSERVATIONS

* Eye	Retina	Degeneration	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Bile Duct	Cyst	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	[Cyst TGLs = 3 - 18]		
	[Eosinophilic Focus TGLs = 2,5,6 - 17+19+20]		
	[Hepatocellular Adenoma TGLs = 1,7 - 16+21]		
* Lung		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Granulomatous, Focal, Minimal
	[Infiltration Cellular TGLs = 4 - 6+7]		
* Mammary Gland		Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 497

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302042

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | Vagina | |

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-------------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Inflammation | Suppurative, Minimal |
| | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Pigment | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | | Inflammation | Granulomatous, Focal, Minimal |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Marked |
| * Ovary | | Atrophy | Mild |
| | Follicle | Cyst | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3 - 11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Carcinoma | |
| * Uterus | Cervix | Hyperplasia | Squamous, Moderate |
| | Endometrium | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 497

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302042

ORGAN AND ACCOUNTABLE SITE STATUS

Squamous Metaplasia

Mild

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 498

TRT#: 10

SEX: Female

DAY ON TEST: 596

DOSE: 20000 ppm female

DISP: Moribund Sacrifice

HISTO: 1302043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | Vagina | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 16] | | |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 499

TRT#: 10

SEX: Female

DAY ON TEST: 670

DOSE: 20000 ppm female

DISP: Natural Death

HISTO: 1302044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thyroid Gland
- * Trachea
- * Urinary Bladder
- * Vagina

OBSERVATIONS

- * Bone Marrow
 - Hypercellularity
 - Moderate
 - Necrosis
 - Mild
- * Kidney
 - Nephropathy
 - Chronicprogr, Minimal
- * Liver
 - Bile Duct
 - Cyst
 - Eosinophilic Focus
 - Hypertrophy
 - Mild
 - Lymphoma Malignant
 - Necrosis
 - Moderate
 - Pigment
 - Minimal
- * Lung
 - [Cyst TGLs = 4,5 - 18+19]
 - [Infiltration Cellular TGLs = 6 - 6+7]
 - Infiltration Cellular
 - Histiocyte, Moderate
- Lymph Node
 - Mediastinal
 - Adenocarcinoma
 - Metastatic (Uterus)
 - Lymphoma Malignant
- * Lymph Node, Mandibular
 - [Lymphoma Malignant TGLs = 7 - 20]
 - Lymphoma Malignant
- * Lymph Node, Mesenteric
 - Lymphoma Malignant
- * Nose
 - Lymphoma Malignant
- * Ovary
 - Atrophy
 - Moderate
- * Pituitary Gland
 - Pars Distalis
 - Adenoma
- * Salivary Glands
 - [Adenoma TGLs = 1 - 16]
 - Hyperplasia
 - Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 499

TRT#: 10

SEX: Female

DAY ON TEST: 670

DOSE: 20000 ppm female

DISP: Natural Death

HISTO: 1302044

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

[Lymphoma Malignant TGLs = 3 - 8]

Lymphoma Malignant

* Thymus

Atrophy

Moderate

* Uterus

Endometrium

Adenocarcinoma

Dilation

Marked

Inflammation

Chronic Active, Minimal

Squamous Metaplasia

Mild

Note: Endometrial adenocarcinoma present in 14Y and 14Z.

[Dilation TGLs = 2 - 17]

PRIMARY CAUSE OF DEATH

- Spleen Lymphoma Malignant

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

ANIMAL ID: 500

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 20000 ppm female

DISP: Terminal Sacrifice

HISTO: 1302045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Trachea |
| * Urinary Bladder | Vagina | | |

OBSERVATIONS

- | | | | |
|----------------------|--|-------------------------------|-----------------------|
| * Bone | | Osteosarcoma | |
| | [Osteosarcoma TGLs = 1 - 16] | | |
| * Bone Marrow | | Hypercellularity | Mild |
| | Note: B16 has lesion (TGL-1) in femur from which routine section is taken, therefore also in the joint presented. Hyperplasia is in the tibial marrow. | | |
| * Kidney | Renal Tubule | Adenoma | |
| | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 2 - 6+7] | | |
| * Mammary Gland | | Hyperplasia | Marked |
| * Nose | Epithelium | Accumulation, Hyaline Droplet | Moderate |
| * Ovary | Follicle | Cyst | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 3 - 17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Stomach, Glandular | | Mineral | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | | Polyp Stromal | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

*** END OF REPORT ***