

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

ortho-Phthalaldehyde

CAS Number: 643-79-8

Date Report Requested: 10/16/2015

Time Report Requested: 12:31:33

First Dose M/F: 01/19/09 / 01/20/09

Lab: BNW

F1_Rev.1_HSD

NTP Study Number: C20727
Lock Date: 08/21/2009
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: 11/01/2011

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59435

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	* Liver	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Testes	Germinal Epith	Degeneration	Focal, Minimal

Experiment Number: 20727 - 01
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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59436

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	* Larynx	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Eye	Cornea	Inflammation	Suppurative, Minimal
* Kidney		Nephropathy	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59437

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	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
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First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59438

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	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal

Experiment Number: 20727 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

ortho-Phthalaldehyde

CAS Number: 643-79-8

Date Report Requested: 10/16/2015

Time Report Requested: 12:31:33

First Dose M/F: 01/19/09 / 01/20/09

Lab: BNW

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59439

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
- * Lung
- * Lymph Node, Bronchial
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Parathyroid Gland
- * Pituitary Gland
- * Salivary Glands
- * Seminal Vesicle
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thyroid Gland
- * Trachea
- Blood Vessel
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Larynx
- * Lymph Node, Mandibular
- * Nose
- * Preputial Gland
- * Skin
- * Testes
- * Urinary Bladder
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Liver
- * Lymph Node, Mediastinal
- * Pancreas
- * Prostate
- * Spleen
- * Thymus

OBSERVATIONS

- * Kidney
- Nephropathy
- Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59440

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	* Larynx	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal

Experiment Number: 20727 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

ortho-Phthalaldehyde

CAS Number: 643-79-8

Date Report Requested: 10/16/2015

Time Report Requested: 12:31:33

First Dose M/F: 01/19/09 / 01/20/09

Lab: BNW

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59441

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 | * Larynx | * Liver |
| * Lung | * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|----------|---------------|-------------------------------|---------|
| * Kidney | | Nephropathy | Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59442

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	* Larynx	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59443

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	* Larynx	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Degeneration	Focal, Mild
	[Degeneration TGLs = 1-15]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59444

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	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 201

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Spleen

Eye
Testes

* Larynx
Thymus

Lung
* Trachea

OBSERVATIONS

Kidney
* Nose

Olfactory Epi
Olfactory Epi
Respirat Epith

Respirat Epith
Epithelium, Hair Follicle

Nephropathy
Accumulation, Hyaline Droplet
Atrophy
Hyperplasia
Inflammation
Metaplasia
Parakeratosis

Mild
Moderate
Mild
Minimal
Suppurative, Minimal
Squamous, Minimal
Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 202

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59536

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Testes

Eye
Thymus

* Larynx
* Trachea

Spleen

OBSERVATIONS

Kidney
Lung
* Nose

Alveolus
Olfactory Epi
Olfactory Epi
Respirat Epith

Respirat Epith
Olfactory Epi
Respirat Epith

Epithelium, Hair Follicle

Nephropathy
Infiltration Cellular
Accumulation, Hyaline Droplet
Atrophy
Hyperplasia
Inflammation
Metaplasia
Metaplasia
Ulcer
Parakeratosis

Mild
Histiocyte, Minimal
Moderate
Mild
Minimal
Suppurative, Minimal
Squamous, Mild
Respiratory, Minimal
Minimal
Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 203

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis	Eye	* Larynx	Lung
Testes	Thymus	* Trachea	

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver		Hepatodiaphragmatic Nodule	Minimal
[Hepatodiaphragmatic Nodule	TGLs = 1-15]		
Lymph Node		Pigmentation	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
	Olfactory Epi	Atrophy	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
Skin	Epithelium, Hair Follicle	Parakeratosis	Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
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Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 204

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis	Eye	* Larynx	Lung
Skin	Spleen	Testes	Thymus
* Trachea			

OBSERVATIONS

Kidney		Nephropathy	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
	Olfactory Epi	Atrophy	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 205

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Testes

Eye
Thymus

Lung
* Trachea

Spleen

OBSERVATIONS

Kidney
* Larynx
* Nose

Olfactory Epi
Olfactory Epi
Respirat Epith

Respirat Epith
Epithelium, Hair Follicle

Nephropathy
Inflammation
Accumulation, Hyaline Droplet
Atrophy
Hyperplasia
Inflammation
Metaplasia
Parakeratosis

Mild
Chronic Active, Minimal
Moderate
Mild
Minimal
Suppurative, Minimal
Squamous, Mild
Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 206

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59540

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Spleen

* Larynx
Testes

Lung
Thymus

Skin
* Trachea

OBSERVATIONS

Eye
Kidney
* Nose

Cornea
Olfactory Epi
Olfactory Epi
Respirat Epith
Goblet Cell, Respirat Epith
Respirat Epith

Inflammation
Nephropathy
Accumulation, Hyaline Droplet
Atrophy
Hyperplasia
Hyperplasia
Inflammation
Metaplasia

Suppurative, Minimal
Minimal
Moderate
Mild
Minimal
Minimal
Suppurative, Minimal
Squamous, Mild

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 207

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Skin
* Trachea

Eye
Spleen

* Larynx
Testes

Lung
Thymus

OBSERVATIONS

Kidney
* Nose

Olfactory Epi
Olfactory Epi
Respirat Epith

Nephropathy
Accumulation, Hyaline Droplet
Atrophy
Inflammation
Metaplasia

Minimal
Mild
Mild
Suppurative, Mild
Squamous, Mild

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 208

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Spleen

Eye
Testes

* Larynx
Thymus

Lung
* Trachea

OBSERVATIONS

Kidney
* Nose

Olfactory Epi
Olfactory Epi
Respirat Epith
Goblet Cell, Respirat Epith

Nephropathy
Accumulation, Hyaline Droplet
Atrophy
Hyperplasia
Hyperplasia
Inflammation

Minimal
Moderate
Mild
Minimal
Minimal
Suppurative, Mild

Skin

Respirat Epith
Epithelium, Hair Follicle

Metaplasia
Parakeratosis

Squamous, Mild
Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 209

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59543

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Testes

Eye
Thymus

Lung
* Trachea

Spleen

OBSERVATIONS

Kidney
* Larynx
* Nose

Olfactory Epi
Olfactory Epi
Respirat Epith
Goblet Cell, Respirat Epith

Respirat Epith
Epithelium, Hair Follicle

Nephropathy
Inflammation
Accumulation, Hyaline Droplet
Atrophy
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Parakeratosis

Minimal
Chronic Active, Minimal
Mild
Minimal
Minimal
Minimal
Suppurative, Mild
Squamous, Mild
Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 210

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Testes

Eye
Thymus

Lung
* Trachea

Spleen

OBSERVATIONS

Kidney
* Larynx
* Nose

Olfactory Epi
Olfactory Epi
Goblet Cell, Respirat Epith
Respirat Epith

Respirat Epith
Epithelium, Hair Follicle

Nephropathy
Metaplasia
Accumulation, Hyaline Droplet
Atrophy
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Parakeratosis

Minimal
Squamous, Minimal
Moderate
Mild
Minimal
Minimal
Suppurative, Mild
Squamous, Mild
Minimal

Skin

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 401

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Testes

* Eye
Thymus

* Lung

Spleen

OBSERVATIONS

Kidney
* Larynx

Nephropathy
Inflammation
Metaplasia

Minimal
Chronic Active, Mild
Squamous, Minimal

* Nose

Olfactory Epi
Respirat Epith
Olfactory Epi
Turbinat

Accumulation, Hyaline Droplet
Accumulation, Hyaline Droplet
Atrophy
Atrophy

Mild
Minimal
Mild
Minimal

Inflammation

Suppurative, Mild

Skin

Respirat Epith
Epithelium, Hair Follicle

Metaplasia
Parakeratosis

Squamous, Mild

* Trachea

Inflammation
Metaplasia

Minimal
Chronic Active, Minimal
Squamous, Minimal

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 402

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
 Testes

* Eye
 Thymus

* Lung

Spleen

OBSERVATIONS

Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Minimal
		Necrosis	Minimal
		Regeneration	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Mild
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
Skin	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Trachea		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 403

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Spleen

* Eye
Testes

* Lung
Thymus

Skin
* Trachea

OBSERVATIONS

Kidney
* Larynx

Nephropathy
Inflammation
Metaplasia

Mild
Chronic Active, Minimal
Squamous, Minimal

* Nose

Olfactory Epi
Olfactory Epi
Turbinat
Respirat Epith
Goblet Cell, Respirat Epith

Accumulation, Hyaline Droplet
Atrophy
Atrophy
Hyperplasia
Hyperplasia
Inflammation

Mild
Mild
Minimal
Minimal
Mild
Suppurative, Mild
Squamous, Mild
Respiratory, Minimal

Respirat Epith
Olfactory Epi

Metaplasia
Metaplasia

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 404

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Spleen

* Eye
Testes

* Lung
Thymus

Skin

OBSERVATIONS

Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Minimal
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Goblet Cell, Respirat Epith	Hyperplasia	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Necrosis	Minimal
* Trachea		Inflammation	Chronic Active, Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 405

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Testes

* Lung
Thymus

Skin
* Trachea

Spleen

OBSERVATIONS

* Eye	Cornea	Inflammation	Suppurative, Mild
	Cornea	Necrosis	Minimal
Heart		Congestion	Minimal
	[Congestion TGLs = 1-6]		
Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Minimal
		Regeneration	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 406

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Spleen

* Eye
Testes

* Lung
Thymus

Skin

OBSERVATIONS

Kidney
* Larynx
* Nose

Olfactory Epi
Olfactory Epi
Respirat Epith
Goblet Cell, Respirat Epith

Respirat Epith
Respirat Epith

Nephropathy
Inflammation
Accumulation, Hyaline Droplet
Atrophy
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Regeneration
Inflammation

Minimal
Chronic Active, Minimal
Mild
Mild
Mild
Mild
Suppurative, Mild
Squamous, Mild
Minimal
Chronic Active, Minimal

* Trachea

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 407

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Spleen

* Eye
Testes

* Lung
Thymus

Skin

OBSERVATIONS

Kidney
* Larynx
* Nose

Olfactory Epi
Olfactory Epi
Turbinat
Respirat Epith
Goblet Cell, Respirat Epith

Respirat Epith
Respirat Epith

Nephropathy
Inflammation
Accumulation, Hyaline Droplet
Atrophy
Atrophy
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Metaplasia

Minimal
Chronic Active, Minimal
Moderate
Mild
Minimal
Minimal
Minimal
Suppurative, Mild
Squamous, Mild
Minimal
Squamous, Minimal

* Trachea

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 408

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Testes

* Eye
Thymus

* Lung
* Trachea

Spleen

OBSERVATIONS

Kidney
* Larynx
* Nose

Olfactory Epi
Olfactory Epi
Respirat Epith

Respirat Epith
Olfactory Epi

Skin

Epithelium, Hair Follicle

Nephropathy
Metaplasia
Accumulation, Hyaline Droplet
Atrophy
Hyperplasia
Inflammation
Metaplasia
Metaplasia
Parakeratosis

Minimal
Squamous, Minimal
Mild
Mild
Minimal
Suppurative, Mild
Squamous, Mild
Respiratory, Minimal
Minimal

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 409

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Eye	Kidney	* Lung	Skin
Spleen	Thymus	* Trachea	

OBSERVATIONS

Epididymis	Duct	Exfoliated Germ Cell	Mild
		Hypospermia	Marked
* Larynx		Metaplasia	Squamous, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Atrophy	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Mild
	Olfactory Epi	Regeneration	Minimal
Testes	Germinal Epith	Atrophy	Multifocal, Marked
	[Atrophy TGLs = 1-9]		

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 410

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Testes

* Eye
Thymus

* Lung

Spleen

OBSERVATIONS

Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Minimal
		Regeneration	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
Skin	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Trachea		Metaplasia	Squamous, Minimal

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 601

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59495

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	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
		Necrosis	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Bronchus	Inflammation	Chronic Active, Minimal
	Bronchus	Metaplasia	Squamous, Minimal
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Necrosis	Mild
* Prostate		Inflammation	Chronic Active, Minimal
* Skin	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Trachea		Fibrosis	Minimal
		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 601

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59495

ORGAN AND ACCOUNTABLE SITE STATUS

Necrosis

Minimal

Regeneration

Moderate

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 602

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Epididymis	Duct	Exfoliated Germ Cell	Mild
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
* Lung	Bronchus	Metaplasia	Squamous, Minimal
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Squamous, Minimal
* Skin	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Testes	Germinal Epith	Degeneration	Multifocal, Mild
* Trachea		Fibrosis	Minimal
		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Minimal
		Regeneration	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 603

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59497

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	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
		Necrosis	Minimal
* Lung	Bronchus	Metaplasia	Squamous, Minimal
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Minimal
	Glands, Olfactory Epi	Hyperplasia	Minimal
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Minimal
* Skin	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Trachea		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Minimal
		Regeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 604

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59498

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 | * Liver | * Lymph Node, Bronchial |
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-----------|-----------------------------|---------------|----------------------|
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Mild |
| | | Metaplasia | Squamous, Minimal |
| | | Regeneration | Mild |
| * Lung | Bronchus | Hyperplasia | Minimal |
| | Bronchus | Metaplasia | Squamous, Minimal |
| * Nose | Olfactory Epi | Atrophy | Mild |
| | Turbinate | Atrophy | Minimal |
| | Respirat Epith | Hyperplasia | Minimal |
| | Goblet Cell, Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Suppurative, Mild |
| | Respirat Epith | Metaplasia | Squamous, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Minimal |
| | Respirat Epith | Necrosis | Minimal |
| * Skin | Epithelium, Hair Follicle | Parakeratosis | Minimal |
| * Trachea | | Inflammation | Chronic Active, Mild |
| | | Metaplasia | Squamous, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 605

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59499

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	* Kidney	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Larynx		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Mild
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
		Inflammation	Suppurative, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
* Skin	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Trachea		Fibrosis	Minimal
		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Minimal
		Necrosis	Mild
		Regeneration	Moderate

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 606

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59500

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	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Mild
* Lung	Bronchus	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Bronchus	Inflammation	Chronic Active, Mild
	Bronchus	Metaplasia	Squamous, Minimal
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
* Skin	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Trachea		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Minimal
		Regeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 607

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59501

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	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Mild
* Lung	Bronchus	Metaplasia	Squamous, Minimal
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
* Skin	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Trachea		Metaplasia	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 608

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* 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, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Urinary Bladder		

MISSING

* Esophagus	* Lymph Node, Mediastinal	* Parathyroid Gland	* Preputial Gland
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
		Necrosis	Minimal
		Regeneration	Minimal
* Lung	Bronchus	Fibrosis	Minimal
	Bronchus	Metaplasia	Squamous, Minimal
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Trachea		Metaplasia	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 609

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59503

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
* Kidney	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Urinary Bladder		

OBSERVATIONS

* Eye	Cornea	Inflammation	Suppurative, Mild
* Heart		Cardiomyopathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Mild
		Necrosis	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Bronchus	Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Minimal
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Minimal
* Trachea		Fibrosis	Minimal
		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 609

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59503

ORGAN AND ACCOUNTABLE SITE STATUS

Regeneration

Mild

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 610

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59504

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	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
		Necrosis	Minimal
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Necrosis	Mild
	Olfactory Epi	Necrosis	Mild
* Trachea		Fibrosis	Minimal
		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Minimal
		Necrosis	Minimal
		Regeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 801

TRT#: 9

SEX: Male

DAY ON TEST: 47

DOSE: 3.5 ppm

DISP: Moribund Sacrifice

HISTO: 59475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Epididymis	Duct	Exfoliated Germ Cell	Minimal
* Eye	Antr Chamber	Inflammation	Suppurative, Minimal
	Cornea	Inflammation	Suppurative, Minimal
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Moderate
		Necrosis	Minimal
* Lung	Bronchus	Fibrosis	Minimal
	Bronchus	Hyperplasia	Mild
	Bronchus, Goblet Cell	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Bronchus	Inflammation	Chronic Active, Moderate
	Bronchus	Metaplasia	Squamous, Minimal
	Bronchus	Necrosis	Mild
	[Infiltration Cellular TGLs = 2-4]		
* Nose	Olfactory Epi	Atrophy	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 801

TRT#: 9

SEX: Male

DAY ON TEST: 47

DOSE: 3.5 ppm

DISP: Moribund Sacrifice

HISTO: 59475

ORGAN AND ACCOUNTABLE SITE STATUS

	Olfactory Epi	Necrosis	Mild
	Olfactory Epi	Regeneration	Mild
* Skin		Inflammation	Suppurative, Moderate
	Epithelium, Hair Follicle	Parakeratosis	Minimal
	[Inflammation TGLs = 1-9]		
* Spleen		Atrophy	Lymphoid, Minimal
* Testes	Germinal Epith	Apoptosis	Minimal
	Interstit Cell	Atrophy	Moderate
	Elong Spermtid	Degeneration	Minimal
	Seminif Tub	Vacuolation	Minimal
* Thymus		Atrophy	Lymphoid, Mild
* Trachea		Fibrosis	Minimal
		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
		Necrosis	Minimal
		Regeneration	Moderate

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 802

TRT#: 9

SEX: Male

DAY ON TEST: 10

DOSE: 3.5 ppm

DISP: Natural Death

HISTO: 59476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Urinary Bladder		

OBSERVATIONS

* Epididymis	Duct	Exfoliated Germ Cell	Moderate
* Eye	Antr Chamber	Inflammation	Suppurative, Minimal
	Cornea	Inflammation	Suppurative, Minimal
* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Minimal
		Necrosis	Moderate
		Regeneration	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Bronchus	Inflammation	Chronic Active, Minimal
	Alveolus	Inflammation	Suppurative, Minimal
	Bronchus	Necrosis	Mild
* Nose	Olfactory Epi	Atrophy	Mild
	Glands, Olfactory Epi	Hyperplasia	Minimal
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Mild
	Respirat Epith	Regeneration	Minimal
* Skin	Adnexa	Degeneration	Minimal
* Spleen		Atrophy	Lymphoid, Minimal
* Testes	Germinal Epith	Apoptosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 802

TRT#: 9

SEX: Male

DAY ON TEST: 10

DOSE: 3.5 ppm

DISP: Natural Death

HISTO: 59476

ORGAN AND ACCOUNTABLE SITE STATUS

	Interstit Cell	Atrophy	Moderate
		Exfoliated Germ Cell	Focal, Mild
		Immature	
* Trachea		Inflammation	Chronic Active, Mild
		Necrosis	Moderate
		Regeneration	Mild

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 803

TRT#: 9

SEX: Male

DAY ON TEST: 4

DOSE: 3.5 ppm

DISP: Natural Death

HISTO: 59477

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* 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, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder		

OBSERVATIONS

* Epididymis	Epithelium	Apoptosis	Minimal
* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Minimal
		Necrosis	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Bronchus	Inflammation	Chronic Active, Minimal
	Alveolus	Inflammation	Suppurative, Minimal
* Nose		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
	Respirat Epith	Necrosis	Mild
* Skin	Adnexa	Degeneration	Mild
* Spleen		Atrophy	Lymphoid, Mild
* Testes	Interstit Cell	Atrophy	Moderate
		Immature	
* Thymus		Atrophy	Lymphoid, Minimal
* Trachea		Inflammation	Chronic Active, Moderate
		Necrosis	Moderate
		Regeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 804

TRT#: 9

SEX: Male

DAY ON TEST: 39

DOSE: 3.5 ppm

DISP: Moribund Sacrifice

HISTO: 59478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Kidney	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder		

OBSERVATIONS

* Eye	Cornea	Inflammation	Suppurative, Moderate
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Moderate
		Necrosis	Minimal
* Lung	Bronchus	Fibrosis	Mild
	Bronchus	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Bronchus	Inflammation	Chronic Active, Mild
	Bronchus	Metaplasia	Squamous, Minimal
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Moderate
	Olfactory Epi	Necrosis	Mild
	Olfactory Epi	Regeneration	Minimal
* Skin		Hyperplasia	Squamous, Minimal
* Spleen		Atrophy	Lymphoid, Mild
* Testes	Interstit Cell	Atrophy	Mild
	Elong Spermtid	Degeneration	Minimal
* Thymus		Atrophy	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 804

TRT#: 9

SEX: Male

DAY ON TEST: 39

DOSE: 3.5 ppm

DISP: Moribund Sacrifice

HISTO: 59478

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea

Inflammation
Metaplasia
Regeneration
Ulcer

Chronic Active, Mild
Squamous, Minimal
Moderate
Minimal

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 805

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3.5 ppm

DISP: Terminal Sacrifice

HISTO: 59479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * 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 | * Liver | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thyroid Gland |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-----------|----------------|-----------------------|--------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Moderate |
| | | Metaplasia | Squamous, Moderate |
| | | Necrosis | Mild |
| * Lung | Bronchus | Hyperplasia | Mild |
| | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Bronchus | Inflammation | Chronic Active, Minimal |
| | Perivascular | Inflammation | Chronic Active, Moderate |
| | Bronchus | Metaplasia | Squamous, Mild |
| * Nose | Olfactory Epi | Atrophy | Mild |
| | | Inflammation | Suppurative, Moderate |
| | Respirat Epith | Metaplasia | Squamous, Mild |
| | Olfactory Epi | Metaplasia | Squamous, Mild |
| | Respirat Epith | Necrosis | Mild |
| * Thymus | | Atrophy | Lymphoid, Minimal |
| * Trachea | | Fibrosis | Mild |
| | | Metaplasia | Squamous, Mild |
| | | Necrosis | Minimal |
| | | Regeneration | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 806

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3.5 ppm

DISP: Terminal Sacrifice

HISTO: 59480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* 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, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Mammary Gland
-------------------------	-----------------

OBSERVATIONS

* Epididymis	Duct	Exfoliated Germ Cell	Minimal
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Moderate
* Lung	Bronchus	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Bronchus	Inflammation	Chronic Active, Mild
	Perivascular	Inflammation	Chronic Active, Mild
	Bronchus	Metaplasia	Squamous, Mild
	Bronchus	Necrosis	Minimal
	Bronchus	Regeneration	Minimal
	[Inflammation TGLs = 2-15]		
* Nose	Olfactory Epi	Atrophy	Mild
	Respirat Epith	Hyperplasia	Minimal
	Glands, Olfactory Epi	Hyperplasia	Minimal
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Respirat Epith	Necrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 806

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3.5 ppm

DISP: Terminal Sacrifice

HISTO: 59480

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Germinal Epith	Apoptosis	Minimal
	Elong Spermtid	Degeneration	Minimal
	Seminif Tub	Vacuolation	Minimal
* Thymus		Atrophy	Lymphoid, Mild
* Trachea		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Moderate
		Necrosis	Minimal

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 807

TRT#: 9

SEX: Male

DAY ON TEST: 39

DOSE: 3.5 ppm

DISP: Moribund Sacrifice

HISTO: 59481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
---------------------------	-----------------

OBSERVATIONS

* Epididymis	Duct	Exfoliated Germ Cell Hypospermia	Mild Moderate
* Eye	Cornea Antr Chamber Cornea	Inflammation Inflammation Necrosis	Suppurative, Moderate Suppurative, Minimal Mild
* Larynx		Inflammation Metaplasia Necrosis Fibrosis	Chronic Active, Mild Squamous, Moderate Mild Mild
* Liver			
[Fibrosis TGLs = 2-6]			
* Lung	Bronchus Alveolus Bronchus Bronchus Bronchus	Hyperplasia Infiltration Cellular Inflammation Metaplasia Necrosis	Mild Histiocyte, Mild Chronic Active, Mild Squamous, Minimal Minimal
* Nose	Olfactory Epi Respirat Epith Respirat Epith	Atrophy Inflammation Metaplasia Necrosis	Mild Suppurative, Moderate Squamous, Mild Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 807

TRT#: 9

SEX: Male

DAY ON TEST: 39

DOSE: 3.5 ppm

DISP: Moribund Sacrifice

HISTO: 59481

ORGAN AND ACCOUNTABLE SITE STATUS

	Olfactory Epi	Necrosis	Mild
	Olfactory Epi	Regeneration	Mild
Penis		Inflammation	Suppurative, Moderate
	[Inflammation TGLs = 1-9]		
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Minimal
	[Atrophy TGLs = 3-10]		
* Spleen		Atrophy	Lymphoid, Mild
* Testes	Germinal Epith	Apoptosis	Mild
	Interstit Cell	Atrophy	Moderate
	Elong Spermtid	Degeneration	Mild
	Seminif Tub	Vacuolation	Mild
* Thymus		Atrophy	Lymphoid, Mild
* Trachea		Fibrosis	Mild
		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Mild
		Necrosis	Minimal
		Regeneration	Minimal

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 808

TRT#: 9

SEX: Male

DAY ON TEST: 4

DOSE: 3.5 ppm

DISP: Natural Death

HISTO: 59482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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, Bronchial | * Lymph Node, Mandibular |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Urinary Bladder | | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------|----------------|-----------------------|--------------------------|
| * Epididymis | Epithelium | Apoptosis | Mild |
| * Larynx | | Inflammation | Chronic Active, Moderate |
| | | Metaplasia | Squamous, Moderate |
| | | Necrosis | Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Bronchus | Inflammation | Chronic Active, Mild |
| | Alveolus | Inflammation | Suppurative, Minimal |
| | Bronchus | Necrosis | Mild |
| | Bronchus | Regeneration | Minimal |
| * Nose | | Inflammation | Suppurative, Mild |
| | Respirat Epith | Metaplasia | Squamous, Minimal |
| | Respirat Epith | Necrosis | Mild |
| | Respirat Epith | Regeneration | Mild |
| * Skin | Adnexa | Degeneration | Minimal |
| * Spleen | | Atrophy | Lymphoid, Minimal |
| * Testes | Interstit Cell | Atrophy | Moderate |
| | | Immature | |
| * Thymus | | Atrophy | Lymphoid, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 808

TRT#: 9

SEX: Male

DAY ON TEST: 4

DOSE: 3.5 ppm

DISP: Natural Death

HISTO: 59482

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea

Inflammation

Chronic Active, Moderate

Necrosis

Moderate

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 809

TRT#: 9

SEX: Male

DAY ON TEST: 3

DOSE: 3.5 ppm

DISP: Natural Death

HISTO: 59483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Epididymis	Epithelium	Apoptosis	Minimal
	Duct	Exfoliated Germ Cell	Minimal
* Eye	Cornea	Inflammation	Suppurative, Mild
	Antr Chamber	Inflammation	Suppurative, Minimal
	Cornea	Necrosis	Minimal
* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Mild
		Necrosis	Mild
		Regeneration	Mild
* Nose		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
	Respirat Epith	Necrosis	Moderate
	Respirat Epith	Regeneration	Minimal
* Skin	Adnexa	Degeneration	Minimal
	Epithelium, Hair Follicle	Parakeratosis	Mild
* Testes	Interstit Cell	Atrophy	Moderate
		Immature	
* Thymus		Atrophy	Lymphoid, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 809

TRT#: 9

SEX: Male

DAY ON TEST: 3

DOSE: 3.5 ppm

DISP: Natural Death

HISTO: 59483

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea

Inflammation

Chronic Active, Mild

Necrosis

Minimal

Regeneration

Moderate

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 810

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3.5 ppm

DISP: Terminal Sacrifice

HISTO: 59484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * 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 | * Kidney | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Thyroid Gland |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Bronchial

OBSERVATIONS

- | | | | |
|-----------|---------------------------|-----------------------|-------------------------|
| * Larynx | | Inflammation | Chronic Active, Mild |
| | | Metaplasia | Squamous, Moderate |
| | | Necrosis | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Bronchus | Inflammation | Chronic Active, Minimal |
| | Bronchus | Metaplasia | Squamous, Mild |
| | Bronchus | Regeneration | Minimal |
| * Nose | Olfactory Epi | Atrophy | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Suppurative, Moderate |
| | Respirat Epith | Metaplasia | Squamous, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| | Respirat Epith | Necrosis | Mild |
| | Olfactory Epi | Regeneration | Mild |
| * Skin | Epithelium, Hair Follicle | Parakeratosis | Minimal |
| * Trachea | | Inflammation | Chronic Active, Minimal |
| | | Metaplasia | Squamous, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1001

TRT#: 11

SEX: Male

DAY ON TEST: 7

DOSE: 7.0 ppm

DISP: Moribund Sacrifice

HISTO: 59455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Epididymis	Duct	Exfoliated Germ Cell Infiltration Cellular	Moderate Mononuclear Cl, Minimal
* Eye	Cornea Cornea Antr Chamber	Hyperplasia Inflammation Inflammation	Mild Suppurative, Mild Suppurative, Minimal
* Larynx		Inflammation Metaplasia Necrosis	Chronic Active, Mild Squamous, Marked Minimal
* Lung	Bronchus Bronchus Alveolus Bronchus Bronchus	Hyperplasia Inflammation Inflammation Metaplasia Necrosis	Minimal Chronic Active, Moderate Suppurative, Minimal Squamous, Minimal
* Nose	Olfactory Epi Respirat Epith Respirat Epith Respirat Epith	Atrophy Inflammation Metaplasia Necrosis Regeneration	Marked Mild Suppurative, Mild Squamous, Mild Moderate
* Skin	Adnexa	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 1001

TRT#: 11

SEX: Male

DAY ON TEST: 7

DOSE: 7.0 ppm

DISP: Moribund Sacrifice

HISTO: 59455

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Stomach, Forestomach		Atrophy	Lymphoid, Moderate
* Testes		Cyst	Squamous, Mild
	Germinal Epith	Apoptosis	Minimal
	Interstit Cell	Atrophy	Moderate
		Exfoliated Germ Cell	Focal, Mild
		Immature	
* Thymus		Atrophy	Lymphoid, Mild
* Trachea		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
		Necrosis	Minimal

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1002

TRT#: 11

SEX: Male

DAY ON TEST: 3

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * 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 | * Liver | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|-----------|---------------------------|---------------|--------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Moderate |
| | | Metaplasia | Squamous, Moderate |
| | | Necrosis | Moderate |
| | | Regeneration | Mild |
| * Lung | Bronchus | Inflammation | Chronic Active, Minimal |
| | Bronchus | Necrosis | Minimal |
| * Nose | | Inflammation | Suppurative, Moderate |
| | Respirat Epith | Metaplasia | Squamous, Mild |
| | Respirat Epith | Necrosis | Moderate |
| | Respirat Epith | Regeneration | Mild |
| * Skin | Adnexa | Degeneration | Minimal |
| | Epithelium, Hair Follicle | Parakeratosis | Minimal |
| * Spleen | | Atrophy | Lymphoid, Mild |
| * Testes | Germinal Epith | Apoptosis | Minimal |
| | Interstit Cell | Atrophy | Moderate |
| | | Immature | |
| * Trachea | | Inflammation | Chronic Active, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 1002

TRT#: 11

SEX: Male

DAY ON TEST: 3

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59456

ORGAN AND ACCOUNTABLE SITE STATUS

Metaplasia

Squamous, Mild

Necrosis

Mild

Regeneration

Mild

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1003

TRT#: 11

SEX: Male

DAY ON TEST: 6

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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, Bronchial	* 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	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Epididymis	Epithelium	Apoptosis	Minimal
	Duct	Exfoliated Germ Cell	Mild
* Eye	Cornea	Inflammation	Suppurative, Mild
* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Moderate
		Necrosis	Moderate
		Regeneration	Mild
* Lung	Bronchus	Inflammation	Chronic Active, Moderate
	Alveolus	Inflammation	Suppurative, Minimal
	Bronchus	Necrosis	Moderate
* Nose	Olfactory Epi	Atrophy	Minimal
	Goblet Cell, Respirat Epith	Hyperplasia	Minimal
	Glands, Olfactory Epi	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Moderate
* Skin	Adnexa	Degeneration	Mild
	Epithelium, Hair Follicle	Parakeratosis	Mild
* Spleen		Atrophy	Lymphoid, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 1003

TRT#: 11

SEX: Male

DAY ON TEST: 6

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59457

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell Round Spermatid	Atrophy Degeneration Immature	Moderate Mild
* Thymus		Atrophy	Lymphoid, Moderate
* Trachea		Inflammation Metaplasia Necrosis	Chronic Active, Mild Squamous, Minimal Moderate

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1004

TRT#: 11

SEX: Male

DAY ON TEST: 3

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Mild
		Necrosis	Moderate
* Nose		Inflammation	Suppurative, Moderate
	Respirat Epith	Necrosis	Moderate
	Respirat Epith	Regeneration	Mild
* Skin	Adnexa	Degeneration	Minimal
	Epithelium, Hair Follicle	Parakeratosis	Mild
* Spleen		Atrophy	Lymphoid, Mild
* Testes	Interstit Cell	Atrophy	Moderate
		Immature	
* Trachea		Inflammation	Chronic Active, Moderate
		Necrosis	Moderate
		Regeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1005

TRT#: 11

SEX: Male

DAY ON TEST: 3

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Eye	Cornea	Necrosis	Mild
* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Mild
		Necrosis	Mild
* Lung	Bronchus	Inflammation	Chronic Active, Minimal
* Nose		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Moderate
* Skin	Adnexa	Degeneration	Minimal
	Epithelium, Hair Follicle	Parakeratosis	Mild
* Spleen		Atrophy	Lymphoid, Mild
* Testes	Interstit Cell	Atrophy	Moderate
		Immature	
* Trachea		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
		Regeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 1005

TRT#: 11

SEX: Male

DAY ON TEST: 3

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59459

ORGAN AND ACCOUNTABLE SITE STATUS

Ulcer

Mild

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1006

TRT#: 11

SEX: Male

DAY ON TEST: 3

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Epididymis	Epithelium	Apoptosis	Minimal
* Intestine Small, Ileum [Diverticulum TGLs = 1-8]		Diverticulum	Minimal
* Larynx		Inflammation	Chronic Active, Marked
		Metaplasia	Squamous, Minimal
		Necrosis	Moderate
		Regeneration	Mild
* Nose		Inflammation	Suppurative, Mild
	Respirat Epith	Necrosis	Moderate
	Respirat Epith	Regeneration	Mild
* Skin	Adnexa	Degeneration	Minimal
	Epithelium, Hair Follicle	Parakeratosis	Mild
* Spleen		Atrophy	Lymphoid, Mild
* Testes	Interstit Cell	Atrophy	Mild
		Immature	
* Thymus		Atrophy	Lymphoid, Mild
* Trachea		Inflammation	Chronic Active, Marked
		Necrosis	Moderate
		Regeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1007

TRT#: 11

SEX: Male

DAY ON TEST: 10

DOSE: 7.0 ppm

DISP: Moribund Sacrifice

HISTO: 59461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* 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, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Bone	Maxilla	Inflammation	Chronic Active, Moderate
* Epididymis	Duct	Exfoliated Germ Cell	Moderate
* Eye	Cornea	Hyperplasia	Minimal
	Cornea	Inflammation	Suppurative, Moderate
	Antr Chamber	Inflammation	Suppurative, Minimal
	Cornea	Necrosis	Moderate
* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Moderate
		Necrosis	Moderate
* Lung	Bronchus	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Bronchus	Inflammation	Chronic Active, Moderate
	Alveolus	Inflammation	Suppurative, Minimal
	Bronchus	Necrosis	Moderate
	Bronchus	Regeneration	Mild
* Nose	Olfactory Epi	Atrophy	Minimal
	Glands, Olfactory Epi	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 1007

TRT#: 11

SEX: Male

DAY ON TEST: 10

DOSE: 7.0 ppm

DISP: Moribund Sacrifice

HISTO: 59461

ORGAN AND ACCOUNTABLE SITE STATUS

	Olfactory Epi	Metaplasia	Squamous, Minimal
	Respirat Epith	Necrosis	Moderate
* Skin	Adnexa	Degeneration	Minimal
	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Spleen		Atrophy	Lymphoid, Moderate
* Testes	Germinal Epith	Apoptosis	Minimal
	Interstit Cell	Atrophy	Moderate
		Exfoliated Germ Cell	Focal, Mild
		Immature	
* Thymus		Atrophy	Lymphoid, Moderate
* Trachea		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
		Regeneration	Mild
		Ulcer	Moderate

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1008

TRT#: 11

SEX: Male

DAY ON TEST: 6

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder	

MISSING

* Mammary Gland	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Epididymis	Epithelium	Apoptosis	Minimal
* Eye	Antr Chamber	Inflammation	Suppurative, Minimal
	Cornea	Inflammation	Suppurative, Mild
	Cornea	Necrosis	Mild
* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Moderate
		Necrosis	Moderate
		Regeneration	Moderate
* Lung	Bronchus	Inflammation	Chronic Active, Mild
	Alveolus	Inflammation	Suppurative, Minimal
	Bronchus	Necrosis	Mild
* Nose	Olfactory Epi	Atrophy	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Moderate
* Skin	Adnexa	Degeneration	Minimal
	Epithelium, Hair Follicle	Parakeratosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 1008

TRT#: 11

SEX: Male

DAY ON TEST: 6

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59462

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Atrophy	Lymphoid, Marked
* Testes	Germinal Epith	Apoptosis	Minimal
	Interstit Cell	Atrophy	Moderate
	Round Spermatid	Degeneration	Moderate
		Immature	
* Thymus		Atrophy	Lymphoid, Moderate
* Trachea		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Mild
		Necrosis	Moderate

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1009

TRT#: 11

SEX: Male

DAY ON TEST: 4

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder

OBSERVATIONS

* Epididymis	Epithelium	Apoptosis	Minimal
* Eye	Cornea	Inflammation	Suppurative, Moderate
	Antr Chamber	Inflammation	Suppurative, Minimal
	Cornea	Necrosis	Moderate
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Moderate
		Necrosis	Moderate
		Regeneration	Minimal
* Lung	Bronchus	Inflammation	Chronic Active, Moderate
	Alveolus	Inflammation	Suppurative, Minimal
	Bronchus	Necrosis	Moderate
* Nose	Olfactory Epi	Atrophy	Mild
	Glands, Olfactory Epi	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
	Respirat Epith	Necrosis	Moderate
	Respirat Epith	Regeneration	Minimal
* Skin	Adnexa	Degeneration	Minimal
		Hyperplasia	Squamous, Minimal
	Epithelium, Hair Follicle	Parakeratosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 1009

TRT#: 11

SEX: Male

DAY ON TEST: 4

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59463

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Atrophy	Lymphoid, Moderate
* Testes	Germinal Epith	Apoptosis	Minimal
	Interstit Cell	Atrophy	Moderate
		Immature	
* Thymus		Atrophy	Lymphoid, Moderate
* Trachea		Inflammation	Chronic Active, Moderate
		Necrosis	Mild
		Regeneration	Moderate

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1010

TRT#: 11

SEX: Male

DAY ON TEST: 5

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Epididymis	Epithelium	Apoptosis	Mild
	Duct	Exfoliated Germ Cell	Mild
* Eye	Cornea	Inflammation	Suppurative, Mild
	Antr Chamber	Inflammation	Suppurative, Minimal
* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Moderate
		Necrosis	Mild
		Regeneration	Mild
* Lung	Bronchus	Inflammation	Chronic Active, Moderate
	Alveolus	Inflammation	Suppurative, Minimal
	Bronchus	Necrosis	Moderate
* Nose	Olfactory Epi	Atrophy	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Mild
	Respirat Epith	Regeneration	Minimal
* Skin	Adnexa	Degeneration	Mild
	Epithelium, Hair Follicle	Parakeratosis	Mild
* Spleen		Atrophy	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 1010

TRT#: 11

SEX: Male

DAY ON TEST: 5

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59464

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Germinal Epith Interstitial Cell	Apoptosis Atrophy Immature	Minimal Moderate
* Thymus		Atrophy	Lymphoid, Moderate
* Trachea		Inflammation Necrosis	Chronic Active, Moderate Marked

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 101

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59445

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	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Kidney

Nephropathy

Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 102

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59446

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	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
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Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 103

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59447

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	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 104

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59448

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	* Larynx
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Bronchial	* Parathyroid Gland
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OBSERVATIONS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
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Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 105

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59449

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	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
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Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 106

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59450

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	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Stomach, Forestomach		Cyst	Squamous, Mild

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 107

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59451

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	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 108

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59452

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	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
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Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 109

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59453

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	* Larynx	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 110

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 59454

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	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 301

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Kidney	* Larynx	Lung
Skin	Spleen	Stomach, Glandular	Thymus
* Trachea			

OBSERVATIONS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
		Inflammation	Suppurative, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 302

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Kidney	* Larynx	Lung
Skin	Spleen	Thymus	* Trachea

OBSERVATIONS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Atrophy	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Kidney	* Larynx	Lung
Skin	Spleen	Stomach, Glandular	Thymus
* Trachea			

OBSERVATIONS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
	Olfactory Epi	Atrophy	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 304

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Kidney	* Larynx	Lung
Spleen	Stomach, Glandular	Thymus	* Trachea

OBSERVATIONS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
Skin	Epithelium, Hair Follicle	Parakeratosis	Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye
Spleen

* Larynx
Stomach, Glandular

Lung
Thymus

Skin
* Trachea

OBSERVATIONS

Kidney
* Nose

Olfactory Epi
Respirat Epith
Olfactory Epi
Respirat Epith

Respirat Epith

Nephropathy
Accumulation, Hyaline Droplet
Accumulation, Hyaline Droplet
Atrophy
Hyperplasia
Inflammation
Metaplasia

Minimal
Moderate
Minimal
Minimal
Suppurative, Minimal
Squamous, Mild

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye
Spleen

* Larynx
Stomach, Glandular

Lung
Thymus

Skin
* Trachea

OBSERVATIONS

Kidney
* Nose

Respirat Epith
Olfactory Epi
Respirat Epith
Glands, Olfactory Epi
Respirat Epith

Nephropathy
Accumulation, Hyaline Droplet
Accumulation, Hyaline Droplet
Hyperplasia
Hyperplasia
Metaplasia

Minimal
Mild
Moderate
Minimal
Minimal
Squamous, Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 307

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Kidney	* Larynx	Lung
Skin	Spleen	Stomach, Glandular	Thymus
* Trachea			

OBSERVATIONS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Atrophy	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 308

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye
Stomach, Glandular

* Larynx
Thymus

Skin
* Trachea

Spleen

OBSERVATIONS

Kidney
Lung
* Nose

Alveolus
Olfactory Epi
Olfactory Epi
Respirat Epith

Respirat Epith

Nephropathy
Infiltration Cellular
Accumulation, Hyaline Droplet
Atrophy
Hyperplasia
Inflammation
Metaplasia

Minimal
Histiocyte, Minimal
Moderate
Mild
Minimal
Suppurative, Minimal
Squamous, Mild

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 309

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	* Larynx	Spleen	Stomach, Glandular
Thymus	* Trachea		

OBSERVATIONS

Kidney		Nephropathy	Minimal
Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Atrophy	Mild
	Respirat Epith	Hyperplasia	Minimal
	Glands, Olfactory Epi	Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
Skin	Adnexa	Degeneration	Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 310

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0.44 ppm

DISP: Terminal Sacrifice

HISTO: 59554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye
Stomach, Glandular

Lung
Thymus

Skin
* Trachea

Spleen

OBSERVATIONS

Kidney
* Larynx

Nephropathy
Inflammation
Metaplasia

Mild
Chronic Active, Minimal
Squamous, Minimal

* Nose

Olfactory Epi
Olfactory Epi
Respirat Epith

Respirat Epith

Accumulation, Hyaline Droplet
Atrophy
Hyperplasia
Inflammation
Metaplasia

Mild
Minimal
Minimal
Suppurative, Mild
Squamous, Mild

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 501

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye
 Stomach, Glandular

* Lung
 Thymus

Skin

* Spleen

OBSERVATIONS

Kidney
 * Larynx
 * Nose

Olfactory Epi
 Olfactory Epi
 Respirat Epith

 Respirat Epith

Nephropathy
 Metaplasia
 Accumulation, Hyaline Droplet
 Atrophy
 Hyperplasia
 Inflammation
 Metaplasia
 Inflammation
 Metaplasia

Mild
 Squamous, Minimal
 Moderate
 Mild
 Mild
 Suppurative, Mild
 Squamous, Mild
 Chronic Active, Minimal
 Squamous, Minimal

* Trachea

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 502

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	* Lung	Skin	* Spleen
Thymus			

OBSERVATIONS

* Larynx		Metaplasia	Squamous, Minimal
Mesentery	Fat	Degeneration	Minimal
[Degeneration TGLs = 1-14]			
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
	Olfactory Epi	Atrophy	Mild
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Mild
* Trachea		Inflammation	Chronic Active, Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 503

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Kidney	* Larynx	* Lung
Skin	* Spleen	Stomach, Glandular	Thymus

OBSERVATIONS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Minimal
* Trachea		Inflammation	Chronic Active, Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 504

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx
Stomach, Glandular

* Lung
Thymus

Skin
* Trachea

* Spleen

OBSERVATIONS

Eye
Kidney
* Nose

Cornea

Olfactory Epi
Olfactory Epi
Respirat Epith

Respirat Epith
Respirat Epith

Inflammation
Nephropathy
Accumulation, Hyaline Droplet
Atrophy
Hyperplasia
Inflammation
Metaplasia
Regeneration

Suppurative, Minimal
Minimal
Mild
Mild
Minimal
Suppurative, Minimal
Squamous, Mild
Mild

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 505

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	* Larynx	* Lung	Skin
* Spleen	Stomach, Glandular	Thymus	* Trachea

OBSERVATIONS

Kidney		Nephropathy	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
	Olfactory Epi	Atrophy	Mild
		Inflammation	Suppurative, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Necrosis	Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 506

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Kidney	* Larynx	Skin
* Spleen	Stomach, Glandular	Thymus	* Trachea

OBSERVATIONS

* Lung	Perivascular	Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Atrophy	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 507

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Kidney	* Larynx	* Lung
Skin	* Spleen	Stomach, Glandular	Thymus
* Trachea			

OBSERVATIONS

* Nose	Olfactory Epi	Atrophy	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 508

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Kidney	* Larynx	Skin
* Spleen	Stomach, Glandular	Thymus	* Trachea

OBSERVATIONS

* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 509

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye
 Stomach, Glandular

Kidney
 Thymus

* Lung

* Spleen

OBSERVATIONS

* Larynx
 * Nose

Olfactory Epi
 Olfactory Epi
 Turbinate
 Respirat Epith

Respirat Epith
 Olfactory Epi
 Respirat Epith
 Epithelium, Hair Follicle

Metaplasia
 Accumulation, Hyaline Droplet
 Atrophy
 Atrophy
 Hyperplasia
 Inflammation
 Metaplasia
 Metaplasia
 Necrosis
 Parakeratosis
 Metaplasia

Squamous, Minimal
 Minimal
 Mild
 Minimal
 Minimal
 Suppurative, Mild
 Squamous, Mild
 Respiratory, Minimal
 Minimal
 Minimal
 Squamous, Minimal

Skin
 * Trachea

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 510

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 0.88 ppm

DISP: Terminal Sacrifice

HISTO: 59534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye
Stomach, Glandular

* Lung
Thymus

Skin

* Spleen

OBSERVATIONS

Kidney
* Larynx

Nephropathy
Inflammation
Metaplasia
Regeneration
Ulcer

Minimal
Chronic Active, Mild
Squamous, Minimal
Mild

* Nose

Olfactory Epi
Turbinates

Atrophy
Atrophy
Inflammation

Minimal
Mild
Minimal
Suppurative, Mild

Respirat Epith
Olfactory Epi
Respirat Epith

Metaplasia
Metaplasia
Necrosis
Metaplasia
Regeneration

Squamous, Mild
Respiratory, Minimal
Minimal
Squamous, Minimal
Mild

* Trachea

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 701

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Eye
Stomach, Glandular

Kidney
* Thymus

Skin

* Spleen

OBSERVATIONS

* Larynx

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Mild

Regeneration

Mild

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

* Nose

Olfactory Epi

Atrophy

Mild

Turbinate

Atrophy

Minimal

Inflammation

Suppurative, Moderate

Respirat Epith

Metaplasia

Squamous, Mild

Respirat Epith

Necrosis

Minimal

Respirat Epith

Ulcer

Minimal

* Trachea

Inflammation

Chronic Active, Minimal

Metaplasia

Squamous, Minimal

Regeneration

Moderate

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 702

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Eye	* Lung	Skin	* Spleen
Stomach, Glandular	* Thymus		

OBSERVATIONS

Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Mild
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Necrosis	Minimal
* Trachea		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Minimal
		Regeneration	Mild

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 703

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Eye	* Lung	* Spleen	Stomach, Glandular
* Thymus			

OBSERVATIONS

Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Mild
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
		Inflammation	Suppurative, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
Skin	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Trachea		Metaplasia	Squamous, Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 704

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Eye	Kidney	* Lung	Skin
* Spleen	Stomach, Glandular	* Thymus	

OBSERVATIONS

* Larynx		Metaplasia	Squamous, Minimal
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
	Olfactory Epi	Metaplasia	Squamous, Minimal
	Respirat Epith	Necrosis	Minimal
* Trachea		Metaplasia	Squamous, Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 705

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Eye	Kidney	* Lung	Skin
* Spleen	Stomach, Glandular	* Thymus	

OBSERVATIONS

* Larynx		Inflammation Metaplasia	Chronic Active, Minimal Squamous, Mild
* Nose	Olfactory Epi Olfactory Epi Turbinat	Accumulation, Hyaline Droplet Atrophy Atrophy Inflammation	Minimal Mild Minimal Suppurative, Mild
	Respirat Epith Respirat Epith	Metaplasia Necrosis	Squamous, Mild Minimal
* Trachea		Inflammation Metaplasia Regeneration	Chronic Active, Minimal Squamous, Minimal Mild

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 706

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Eye	Skin	* Spleen	Stomach, Glandular
* Thymus			

OBSERVATIONS

Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Mild
* Lung	Bronchus	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Bronchus	Inflammation	Chronic Active, Minimal
	Bronchus	Metaplasia	Squamous, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Minimal
	Goblet Cell, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Respirat Epith	Necrosis	Mild
* Trachea		Fibrosis	Minimal
		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Minimal
		Necrosis	Minimal
		Regeneration	Moderate

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 707

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Eye	Kidney	Skin	Stomach, Glandular
* Thymus			

OBSERVATIONS

* Larynx		Inflammation Metaplasia Ulcer	Chronic Active, Mild Squamous, Mild Minimal
* Lung	Bronchus Alveolus Perivascular Bronchus Bronchus	Hyperplasia Infiltration Cellular Inflammation Inflammation Metaplasia	Mild Histiocyte, Mild Chronic Active, Mild Chronic Active, Mild Squamous, Minimal
* Nose	Olfactory Epi Olfactory Epi Turbinates Respirat Epith Glands, Olfactory Epi Respirat Epith Respirat Epith	Accumulation, Hyaline Droplet Atrophy Atrophy Hyperplasia Hyperplasia Inflammation Metaplasia Necrosis	Mild Mild Minimal Mild Minimal Suppurative, Moderate Squamous, Mild Minimal
* Spleen		Atrophy	Lymphoid, Minimal
* Trachea		Fibrosis Inflammation Metaplasia Necrosis Regeneration	Minimal Chronic Active, Mild Squamous, Minimal Minimal Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 708

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Eye	Kidney	* Lung	* Spleen
Stomach, Glandular	* Thymus		

OBSERVATIONS

* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
		Necrosis	Mild
		Regeneration	Mild
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Necrosis	Minimal
		Synechia	Minimal
Skin	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Trachea		Metaplasia	Squamous, Minimal
		Necrosis	Minimal
		Regeneration	Mild
Uterus		Decidual Reaction	Marked
	[Decidual Reaction TGLs = 1-10]		

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 709

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Eye	* Lung	Skin	* Spleen
Stomach, Glandular	* Thymus		

OBSERVATIONS

Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
		Regeneration	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Glands, Olfactory Epi	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Minimal
* Trachea		Metaplasia	Squamous, Minimal

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 710

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 1.75 ppm

DISP: Terminal Sacrifice

HISTO: 59514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Eye	* Lung	* Spleen	Stomach, Glandular
* Thymus			

OBSERVATIONS

Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Mild
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Necrosis	Minimal
Skin	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Trachea		Metaplasia	Squamous, Minimal
		Regeneration	Moderate

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 901

TRT#: 10

SEX: Female

DAY ON TEST: 46

DOSE: 3.5 ppm

DISP: Moribund Sacrifice

HISTO: 59485

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, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder	* Uterus

OBSERVATIONS

* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Moderate
		Necrosis	Moderate
* Lung	Bronchus	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Bronchus	Inflammation	Chronic Active, Moderate
	Alveolus	Inflammation	Suppurative, Mild
	Bronchus	Metaplasia	Squamous, Mild
	Bronchus	Necrosis	Minimal
* Nose	Turbinate	Atrophy	Minimal
	Olfactory Epi	Atrophy	Mild
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Moderate
	Olfactory Epi	Regeneration	Minimal
	Respirat Epith	Regeneration	Mild
* Spleen		Atrophy	Lymphoid, Minimal
* Thymus		Atrophy	Lymphoid, Minimal
* Trachea		Fibrosis	Minimal
		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 901

TRT#: 10

SEX: Female

DAY ON TEST: 46

DOSE: 3.5 ppm

DISP: Moribund Sacrifice

HISTO: 59485

ORGAN AND ACCOUNTABLE SITE STATUS

Metaplasia
Regeneration

Squamous, Minimal
Moderate

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 902

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3.5 ppm

DISP: Terminal Sacrifice

HISTO: 59486

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, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Moderate
		Necrosis	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Bronchus	Inflammation	Chronic Active, Mild
	Perivascular	Inflammation	Chronic Active, Mild
	Bronchus	Metaplasia	Squamous, Mild
	Bronchus	Regeneration	Minimal
* Nose	Turbinate	Atrophy	Minimal
	Olfactory Epi	Atrophy	Mild
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Minimal
* Spleen		Atrophy	Lymphoid, Minimal
* Trachea		Fibrosis	Minimal
		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
		Necrosis	Minimal
		Regeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 903

TRT#: 10

SEX: Female

DAY ON TEST: 16

DOSE: 3.5 ppm

DISP: Moribund Sacrifice

HISTO: 59487

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	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Urinary Bladder	* Uterus		

MISSING

* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Moderate
		Necrosis	Minimal
		Regeneration	Mild
* Lung	Interstitialium	Fibrosis	Moderate
	Bronchus	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Bronchus	Inflammation	Chronic Active, Minimal
	Alveolus	Inflammation	Suppurative, Minimal
* Nose	Turbinate	Atrophy	Minimal
	Olfactory Epi	Atrophy	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Moderate
	Olfactory Epi	Necrosis	Minimal
* Skin	Adnexa	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 903

TRT#: 10

SEX: Female

DAY ON TEST: 16

DOSE: 3.5 ppm

DISP: Moribund Sacrifice

HISTO: 59487

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Trachea		Atrophy	Lymphoid, Mild
		Inflammation	Chronic Active, Mild
		Regeneration	Mild
		Ulcer	Mild

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 904

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3.5 ppm

DISP: Terminal Sacrifice

HISTO: 59488

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, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Bronchial	* Parathyroid Gland
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OBSERVATIONS

* Larynx		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Bronchus	Inflammation	Chronic Active, Minimal
	Perivascular	Inflammation	Chronic Active, Minimal
	Bronchus	Metaplasia	Squamous, Mild
* Nose	Turbinate	Atrophy	Minimal
	Olfactory Epi	Atrophy	Mild
	Glands, Olfactory Epi	Hyperplasia	Minimal
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Respirat Epith	Necrosis	Mild
* Spleen		Atrophy	Lymphoid, Minimal
* Thymus		Atrophy	Lymphoid, Minimal
* Trachea		Inflammation	Chronic Active, Mild
		Necrosis	Minimal
		Regeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 905

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3.5 ppm

DISP: Terminal Sacrifice

HISTO: 59489

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, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Larynx		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Moderate
* Lung	Bronchus	Fibrosis	Minimal
	Bronchus	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Bronchus	Inflammation	Chronic Active, Mild
	Bronchus	Metaplasia	Squamous, Minimal
	Bronchus	Necrosis	Minimal
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
	Glands, Olfactory Epi	Hyperplasia	Minimal
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Necrosis	Mild
* Thymus		Atrophy	Lymphoid, Minimal
* Trachea		Fibrosis	Minimal
		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 905

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3.5 ppm

DISP: Terminal Sacrifice

HISTO: 59489

ORGAN AND ACCOUNTABLE SITE STATUS

Metaplasia

Squamous, Mild

Regeneration

Moderate

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 906

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3.5 ppm

DISP: Terminal Sacrifice

HISTO: 59490

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	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Larynx		Inflammation Metaplasia Necrosis	Chronic Active, Mild Squamous, Moderate Minimal
* Lung	Alveolus Bronchus Perivascular Bronchus	Infiltration Cellular Inflammation Inflammation	Histiocyte, Mild Chronic Active, Minimal Chronic Active, Minimal
* Nose	Olfactory Epi Turbinates Respirat Epith Respirat Epith Olfactory Epi Respirat Epith	Metaplasia Atrophy Atrophy Hyperplasia Inflammation Metaplasia Metaplasia Necrosis	Squamous, Minimal Minimal Minimal Minimal Suppurative, Moderate Squamous, Mild Respiratory, Minimal Minimal
* Skin	Hair Follicle Epithelium, Hair Follicle	Atrophy Parakeratosis	Minimal Minimal
[Atrophy TGLs = 1-14]			
* Trachea		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 906

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3.5 ppm

DISP: Terminal Sacrifice

HISTO: 59490

ORGAN AND ACCOUNTABLE SITE STATUS

Metaplasia

Squamous, Mild

Regeneration

Moderate

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 907

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3.5 ppm

DISP: Terminal Sacrifice

HISTO: 59491

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, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Mammary Gland | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|-----------|----------------|-----------------------|-------------------------|
| * Larynx | | Inflammation | Chronic Active, Mild |
| | | Metaplasia | Squamous, Moderate |
| | | Necrosis | Minimal |
| * Lung | Bronchus | Hyperplasia | Mild |
| | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Perivascular | Inflammation | Chronic Active, Mild |
| | Bronchus | Inflammation | Chronic Active, Minimal |
| | Bronchus | Metaplasia | Squamous, Minimal |
| * Nose | Turbinate | Atrophy | Minimal |
| | Olfactory Epi | Atrophy | Mild |
| | | Inflammation | Suppurative, Moderate |
| | Respirat Epith | Metaplasia | Squamous, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Minimal |
| | Respirat Epith | Necrosis | Mild |
| * Thymus | | Atrophy | Lymphoid, Minimal |
| * Trachea | | Inflammation | Chronic Active, Minimal |
| | | Metaplasia | Squamous, Mild |
| | | Regeneration | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 908

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3.5 ppm

DISP: Terminal Sacrifice

HISTO: 59492

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	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Moderate
* Lung	Bronchus	Inflammation	Chronic Active, Minimal
	Bronchus	Metaplasia	Squamous, Minimal
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Necrosis	Mild
* Skin	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Thymus		Atrophy	Lymphoid, Minimal
* Trachea		Fibrosis	Minimal
		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Minimal
		Regeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 909

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3.5 ppm

DISP: Terminal Sacrifice

HISTO: 59493

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, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Mammary Gland | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|-----------|----------------|-----------------------|-----------------------|
| * Larynx | | Inflammation | Chronic Active, Mild |
| | | Metaplasia | Squamous, Moderate |
| | | Necrosis | Minimal |
| * Lung | Bronchus | Hyperplasia | Mild |
| | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Bronchus | Inflammation | Chronic Active, Mild |
| | Perivascular | Inflammation | Chronic Active, Mild |
| | Bronchus | Metaplasia | Squamous, Mild |
| * Nose | Olfactory Epi | Atrophy | Mild |
| | Turbinate | Atrophy | Minimal |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Suppurative, Moderate |
| | Respirat Epith | Metaplasia | Squamous, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| | Respirat Epith | Necrosis | Minimal |
| * Thymus | | Atrophy | Lymphoid, Minimal |
| * Trachea | | Fibrosis | Mild |
| | | Inflammation | Chronic Active, Mild |
| | | Necrosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 909

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3.5 ppm

DISP: Terminal Sacrifice

HISTO: 59493

ORGAN AND ACCOUNTABLE SITE STATUS

Regeneration

Moderate

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 910

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3.5 ppm

DISP: Terminal Sacrifice

HISTO: 59494

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	* Kidney	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Eye	Antr Chamber	Inflammation	Suppurative, Minimal
	Cornea	Inflammation	Suppurative, Minimal
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Moderate
		Necrosis	Minimal
* Lung	Interstitium	Fibrosis	Minimal
	Bronchus	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Bronchus	Inflammation	Chronic Active, Mild
	Perivascular	Inflammation	Chronic Active, Mild
	Bronchus	Metaplasia	Squamous, Mild
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Minimal
		Inflammation	Suppurative, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Minimal
* Trachea		Fibrosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 910

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3.5 ppm

DISP: Terminal Sacrifice

HISTO: 59494

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Mild

Regeneration

Moderate

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1101

TRT#: 12

SEX: Female

DAY ON TEST: 4

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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	* Kidney
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mesenteric

OBSERVATIONS

* Eye	Cornea Antr Chamber	Inflammation Inflammation Congestion	Suppurative, Mild Suppurative, Minimal Minimal
* Heart	[Congestion TGLs = 1-6]		
* Larynx		Inflammation Metaplasia Necrosis Regeneration	Chronic Active, Moderate Squamous, Mild Mild Minimal
* Lung	Bronchus Bronchus	Inflammation Necrosis	Chronic Active, Mild Mild
* Nose	Glands, Olfactory Epi Respirat Epith Respirat Epith	Hyperplasia Inflammation Metaplasia Necrosis	Minimal Suppurative, Mild Squamous, Mild Moderate
* Skin	Adnexa	Degeneration	Minimal
* Spleen		Atrophy	Lymphoid, Marked
* Thymus		Atrophy	Lymphoid, Moderate
* Trachea		Inflammation Metaplasia	Chronic Active, Moderate Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 1101

TRT#: 12

SEX: Female

DAY ON TEST: 4

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59465

ORGAN AND ACCOUNTABLE SITE STATUS

Regeneration

Moderate

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1102

TRT#: 12

SEX: Female

DAY ON TEST: 4

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59466

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder	* Uterus	

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Eye	Cornea	Inflammation	Suppurative, Moderate
	Antr Chamber	Inflammation	Suppurative, Moderate
	Cornea	Necrosis	Mild
* Heart		Cardiomyopathy	Mild
* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Moderate
		Necrosis	Marked
* Lung	Bronchus	Inflammation	Chronic Active, Mild
	Bronchus	Necrosis	Mild
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Moderate
	Respirat Epith	Regeneration	Mild
* Skin	Adnexa	Degeneration	Mild
* Spleen		Atrophy	Lymphoid, Marked
* Thymus		Atrophy	Lymphoid, Moderate
* Trachea		Inflammation	Chronic Active, Marked
		Metaplasia	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 1102

TRT#: 12

SEX: Female

DAY ON TEST: 4

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59466

ORGAN AND ACCOUNTABLE SITE STATUS

Necrosis

Marked

Regeneration

Minimal

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1103

TRT#: 12

SEX: Female

DAY ON TEST: 9

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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	* Kidney
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Bronchial	* Parathyroid Gland
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OBSERVATIONS

* Eye	Cornea	Inflammation	Suppurative, Minimal
	Cornea	Necrosis	Minimal
* Heart		Cardiomyopathy	Minimal
* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Moderate
		Necrosis	Moderate
* Lung	Bronchus	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Bronchus	Inflammation	Chronic Active, Moderate
	Interstitium	Inflammation	Granulomatous, Minimal
	Alveolus	Inflammation	Suppurative, Mild
	Bronchus	Necrosis	Mild
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Moderate
* Skin	Adnexa	Degeneration	Mild
* Spleen		Atrophy	Lymphoid, Mild
* Thymus		Atrophy	Lymphoid, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 1103

TRT#: 12

SEX: Female

DAY ON TEST: 9

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59467

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea

Inflammation

Chronic Active, Moderate

Metaplasia

Squamous, Minimal

Necrosis

Moderate

Regeneration

Minimal

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1104

TRT#: 12

SEX: Female

DAY ON TEST: 6

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Kidney	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Thyroid Gland	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Eye	Antr Chamber	Inflammation	Suppurative, Minimal
	Cornea	Inflammation	Suppurative, Moderate
	Cornea	Necrosis	Moderate
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Bronchus	Inflammation	Chronic Active, Minimal
	Bronchus	Necrosis	Mild
	Bronchus	Regeneration	Moderate
* Nose	Olfactory Epi	Atrophy	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Mild
* Skin	Adnexa	Degeneration	Minimal
	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Spleen		Atrophy	Lymphoid, Marked
* Stomach, Glandular		Ulcer	Mild
* Thymus		Atrophy	Lymphoid, Moderate
* Trachea		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 1104

TRT#: 12

SEX: Female

DAY ON TEST: 6

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59468

ORGAN AND ACCOUNTABLE SITE STATUS

Metaplasia

Squamous, Mild

Necrosis

Minimal

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1105

TRT#: 12

SEX: Female

DAY ON TEST: 9

DOSE: 7.0 ppm

DISP: Moribund Sacrifice

HISTO: 59469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Kidney	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Eye	Cornea	Inflammation	Suppurative, Moderate
	Cornea	Necrosis	Moderate
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
		Necrosis	Mild
* Lung	Bronchus	Fibrosis	Moderate
	Bronchus	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Bronchus	Inflammation	Chronic Active, Moderate
	Interstitium	Inflammation	Granulomatous, Mild
	Alveolus	Inflammation	Suppurative, Mild
	Bronchus	Necrosis	Moderate
	[Inflammation TGLs = 2-5]		
* Nose	Olfactory Epi	Atrophy	Minimal
	Glands, Olfactory Epi	Hyperplasia	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
	Respirat Epith	Necrosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 1105

TRT#: 12

SEX: Female

DAY ON TEST: 9

DOSE: 7.0 ppm

DISP: Moribund Sacrifice

HISTO: 59469

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Adnexa	Degeneration	Mild
		Hyperplasia	Squamous, Minimal
	Epithelium, Hair Follicle	Parakeratosis	Mild
* Spleen		Atrophy	Lymphoid, Moderate
* Thymus		Atrophy	Lymphoid, Moderate
* Trachea		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Mild
		Necrosis	Minimal
		Regeneration	Minimal

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1106

TRT#: 12

SEX: Female

DAY ON TEST: 4

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Moderate
		Necrosis	Moderate
* Lung	Bronchus	Inflammation	Chronic Active, Minimal
	Alveolus	Inflammation	Suppurative, Minimal
	Bronchus	Necrosis	Moderate
	Bronchus	Regeneration	Mild
* Nose	Olfactory Epi	Atrophy	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Minimal
	Respirat Epith	Necrosis	Mild
	Respirat Epith	Regeneration	Minimal
	Respirat Epith	Ulcer	Minimal
* Skin	Adnexa	Degeneration	Minimal
* Spleen		Atrophy	Lymphoid, Moderate
* Thymus		Atrophy	Lymphoid, Moderate
* Trachea		Inflammation	Chronic Active, Moderate
		Necrosis	Moderate
		Regeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1107

TRT#: 12

SEX: Female

DAY ON TEST: 5

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder	* Uterus

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Eye	Cornea	Inflammation	Suppurative, Moderate
	Antr Chamber	Inflammation	Suppurative, Mild
	Cornea	Necrosis	Moderate
* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Moderate
		Necrosis	Minimal
* Lung	Bronchus	Fibrosis	Minimal
	Bronchus	Inflammation	Chronic Active, Mild
	Bronchus	Necrosis	Mild
	Bronchus	Regeneration	Minimal
* Nose		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Moderate
* Skin	Adnexa	Degeneration	Mild
	Epithelium, Hair Follicle	Parakeratosis	Mild
* Spleen		Atrophy	Lymphoid, Moderate
* Thymus		Atrophy	Lymphoid, Moderate
* Trachea		Inflammation	Chronic Active, Marked
		Metaplasia	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 1107

TRT#: 12

SEX: Female

DAY ON TEST: 5

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59471

ORGAN AND ACCOUNTABLE SITE STATUS

Necrosis

Minimal

Regeneration

Moderate

Ulcer

Mild

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1108

TRT#: 12

SEX: Female

DAY ON TEST: 5

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59472

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Kidney	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Eye	Cornea	Inflammation	Suppurative, Mild
	Cornea	Necrosis	Mild
* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Moderate
		Necrosis	Moderate
		Regeneration	Minimal
* Lung	Bronchus	Inflammation	Chronic Active, Mild
	Bronchus	Necrosis	Mild
	Bronchus	Regeneration	Minimal
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Minimal
	Respirat Epith	Necrosis	Moderate
	Respirat Epith	Regeneration	Mild
* Skin	Adnexa	Degeneration	Mild
	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Spleen		Atrophy	Lymphoid, Marked
* Thymus		Atrophy	Lymphoid, Moderate
* Trachea		Inflammation	Chronic Active, Moderate
		Necrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 1108

TRT#: 12

SEX: Female

DAY ON TEST: 5

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59472

ORGAN AND ACCOUNTABLE SITE STATUS

Regeneration

Minimal

Ulcer

Mild

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
ortho-Phthalaldehyde
CAS Number: 643-79-8

Date Report Requested: 10/16/2015
Time Report Requested: 12:31:33
First Dose M/F: 01/19/09 / 01/20/09
Lab: BNW

ANIMAL ID: 1109

TRT#: 12

SEX: Female

DAY ON TEST: 5

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Bronchial

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Moderate
		Necrosis	Mild
* Lung	Bronchus	Inflammation	Chronic Active, Mild
	Bronchus	Necrosis	Moderate
* Nose		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Mild
* Skin	Adnexa	Degeneration	Mild
	Epithelium, Hair Follicle	Parakeratosis	Mild
* Spleen		Atrophy	Lymphoid, Marked
* Thymus		Atrophy	Lymphoid, Moderate
* Trachea		Inflammation	Chronic Active, Mild
		Necrosis	Minimal
		Regeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

ANIMAL ID: 1110

TRT#: 12

SEX: Female

DAY ON TEST: 6

DOSE: 7.0 ppm

DISP: Natural Death

HISTO: 59474

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Thyroid Gland	* Urinary Bladder
* Uterus			

MISSING

* Intestine Small, Jejunum	* Lymph Node, Bronchial
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OBSERVATIONS

* Eye	Cornea	Hyperplasia	Mild
	Cornea	Inflammation	Suppurative, Moderate
	Antr Chamber	Inflammation	Suppurative, Minimal
	Cornea	Necrosis	Moderate
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Moderate
* Lung	Bronchus	Inflammation	Chronic Active, Mild
	Alveolus	Inflammation	Suppurative, Minimal
	Bronchus	Necrosis	Mild
	Bronchus	Regeneration	Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Minimal
	Goblet Cell, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Necrosis	Minimal

* PROTOCOL REQUIRED TISSUE

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ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Adnexa	Degeneration	Mild
	Epithelium, Hair Follicle	Parakeratosis	Minimal
* Spleen		Atrophy	Lymphoid, Marked
* Stomach, Glandular		Ulcer	Mild
* Thymus		Atrophy	Lymphoid, Moderate
* Trachea		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
		Regeneration	Mild

*** END OF REPORT ***