

Experiment Number: 20712 - 03

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS
ABRIDGED) (a)**

Date Report Requested: 09/18/2020

Test Type: Chronic PN

Tris(Chloropropyl)phosphate

Time Report Requested: 11:04:53

Route: DOSED FEED

CAS Number: 13674-84-5

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

Species/Strain: RATS/HSD

Lab: BAT

Final 3_Rats

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

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Species/Strain: RATS/HSD

Lab: BAT

Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
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Disposition Summary

Animals Initially In Study	50	50	50	50	50
Early Deaths					
Moribund Sacrifice	15	8	8	5	8
Natural Death	10	8	8	8	11
Survivors					
Terminal Sacrifice	25	34	34	37	31
Animals Examined Microscopically	50	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(49)	(50)	(50)	(48)	(49)
Adenocarcinoma				1 (2%)	
Intestine Large, Colon	(49)	(50)	(50)	(48)	(50)
Adenocarcinoma				1 (2%)	
Intestine Large, Rectum	(50)	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(49)	(50)	(49)	(50)
Adenocarcinoma					1 (2%)
Intestine Small, Ileum	(49)	(50)	(50)	(48)	(49)
Intestine Small, Jejunum	(48)	(49)	(49)	(48)	(50)
Adenocarcinoma			1 (2%)		2 (4%)
Liver	(50)	(50)	(50)	(50)	(49)
Adenocarcinoma, Metastatic, Intestine Small, Jejunum					1 (2%)
Cholangiocarcinoma			1 (2%)		1 (2%)
Hepatocellular Adenoma	1 (2%)			5 (10%)	2 (4%)
Hepatocellular Adenoma, Multiple					1 (2%)
Hepatocellular Carcinoma			1 (2%)	3 (6%)	3 (6%)
Mesentery	(4)	(0)	(3)	(0)	(1)
Fibrosarcoma, Metastatic, Skeletal Muscle			1 (33%)		
Pancreas	(50)	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Intestine Small, Jejunum					1 (2%)
Acinus, Adenoma	3 (6%)	2 (4%)	1 (2%)	4 (8%)	4 (8%)

a - Number of animals examined microscopically at site and number of animals with lesion

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CAS Number: 13674-84-5

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Species/Strain: RATS/HSD

Lab: BAT

Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Acinus, Adenoma, Multiple	6 (12%)	6 (12%)	4 (8%)	3 (6%)	2 (4%)
Salivary Glands	(50)	(50)	(50)	(50)	(49)
Stomach, Forestomach	(50)	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Intestine Small, Jejunum					1 (2%)
Stomach, Glandular	(50)	(50)	(50)	(50)	(50)

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(50)	(50)	(50)	(50)
Heart	(50)	(50)	(50)	(50)	(50)
Schwannoma Malignant				1 (2%)	1 (2%)
Epicardium, Adenocarcinoma, Metastatic, Intestine Small, Jejunum					1 (2%)

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Intestine Small, Jejunum					1 (2%)
Adenoma		1 (2%)		1 (2%)	
Adrenal Medulla	(50)	(50)	(50)	(50)	(50)
Pheochromocytoma Benign	6 (12%)	9 (18%)	7 (14%)	4 (8%)	
Pheochromocytoma Malignant		1 (2%)	1 (2%)	1 (2%)	
Bilateral, Pheochromocytoma Benign				1 (2%)	
Islets, Pancreatic	(50)	(50)	(50)	(50)	(50)
Adenoma	4 (8%)	9 (18%)	7 (14%)	6 (12%)	3 (6%)
Adenoma, Multiple		2 (4%)			1 (2%)
Parathyroid Gland	(49)	(46)	(46)	(44)	(45)
Adenoma					1 (2%)
Carcinoma		1 (2%)			
Pituitary Gland	(50)	(50)	(50)	(50)	(49)
Pars Distalis, Adenoma	7 (14%)	14 (28%)	7 (14%)	11 (22%)	9 (18%)
Pars Distalis, Meningioma Malignant, Metastatic, Brain				1 (2%)	
Thyroid Gland	(50)	(50)	(50)	(50)	(49)

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Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Bilateral, C-cell, Adenoma	1 (2%)	2 (4%)			
C-cell, Adenoma	8 (16%)	4 (8%)	10 (20%)	9 (18%)	11 (22%)
C-cell, Adenoma, Multiple				1 (2%)	1 (2%)
C-cell, Carcinoma		2 (4%)	1 (2%)		1 (2%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Coagulating Gland	(2)	(1)	(0)	(0)	(0)
Epididymis	(50)	(50)	(50)	(50)	(50)
Penis	(1)	(0)	(0)	(0)	(0)
Preputial Gland	(50)	(50)	(50)	(50)	(50)
Adenoma, Squamous					1 (2%)
Squamous Cell Carcinoma	1 (2%)				
Prostate	(50)	(50)	(50)	(50)	(50)
Seminal Vesicle	(50)	(50)	(50)	(50)	(50)
Neural Crest Tumor				1 (2%)	
Testis	(50)	(50)	(50)	(50)	(50)
Interstitial Cell, Adenoma		3 (6%)		3 (6%)	3 (6%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)	(50)
Lymph Node	(2)	(4)	(2)	(1)	(4)
Mediastinal, Adenocarcinoma, Metastatic, Intestine Small, Jejunum					1 (25%)
Lymph Node, Mandibular	(50)	(50)	(49)	(50)	(50)
Carcinoma, Metastatic, Thyroid Gland					1 (2%)
Lymph Node, Mesenteric	(50)	(49)	(49)	(49)	(50)
Adenocarcinoma, Metastatic, Intestine Small, Jejunum					1 (2%)
Spleen	(50)	(50)	(50)	(50)	(49)

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Lab: BAT

Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Capsule, Adenocarcinoma, Metastatic, Intestine Small, Jejunum					1 (2%)
Thymus	(49)	(45)	(47)	(50)	(48)

INTEGUMENTARY SYSTEM

Mammary Gland	(45)	(50)	(50)	(50)	(49)
Fibroadenoma	2 (4%)	1 (2%)	2 (4%)	1 (2%)	
Skin	(50)	(50)	(50)	(50)	(50)
Basal Cell Adenoma			1 (2%)	1 (2%)	
Keratoacanthoma	2 (4%)	2 (4%)	1 (2%)	1 (2%)	1 (2%)
Sarcoma					1 (2%)
Squamous Cell Papilloma	1 (2%)	2 (4%)			
Pinna, Neural Crest Tumor					1 (2%)
Subcutaneous Tissue, Fibroma	4 (8%)	3 (6%)		1 (2%)	3 (6%)
Subcutaneous Tissue, Fibrosarcoma				1 (2%)	
Subcutaneous Tissue, Sarcoma					1 (2%)
Subcutaneous Tissue, Schwannoma Malignant		1 (2%)			

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)	(50)
Skeletal Muscle	(3)	(0)	(3)	(1)	(4)
Adenocarcinoma, Metastatic, Intestine Small, Jejunum					1 (25%)
Neural Crest Tumor, Metastatic, Seminal Vesicle				1 (100%)	
Sarcoma			1 (33%)		1 (25%)

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)	(50)
Glioma Benign		1 (2%)			
Glioma Malignant			1 (2%)		1 (2%)
Granular Cell Tumor Benign	1 (2%)	2 (4%)			

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Granular Cell Tumor Malignant				1 (2%)	
Meningioma Malignant	1 (2%)			1 (2%)	
Cranial Nerve, Schwannoma Malignant				1 (2%)	
Brain Trigeminal Ganglion	(1)	(0)	(0)	(0)	(0)
Nerve Trigeminal	(2)	(2)	(1)	(1)	(1)
Peripheral Nerve	(3)	(2)	(4)	(1)	(4)
Spinal Cord	(2)	(2)	(2)	(1)	(1)

RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Intestine Small, Jejunum					1 (2%)
Alveolar/Bronchiolar Adenoma				1 (2%)	1 (2%)
Carcinoma	1 (2%)				
Carcinoma, Metastatic, Thyroid Gland		1 (2%)			
Hepatocellular Carcinoma, Metastatic, Liver				1 (2%)	
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla		1 (2%)	1 (2%)		
Mediastinum, Carcinoma, Metastatic, Thyroid Gland			1 (2%)		
Nose	(50)	(50)	(50)	(50)	(50)
Adenoma					1 (2%)
Trachea	(50)	(50)	(50)	(50)	(50)

SPECIAL SENSES SYSTEM

Eye	(50)	(50)	(50)	(50)	(50)
Meningioma Malignant, Metastatic, Brain				1 (2%)	
Harderian Gland	(50)	(50)	(50)	(50)	(50)
Schwannoma Malignant, Metastatic, Nerve Trigeminal				1 (2%)	

URINARY SYSTEM

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Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Kidney	(50)	(50)	(50)	(50)	(50)
Lipoma		1 (2%)			1 (2%)
Liposarcoma	1 (2%)				
Renal Tubule, Carcinoma			1 (2%)		
Urothelium, Carcinoma			1 (2%)		
Ureter	(0)	(0)	(0)	(1)	(0)
Urinary Bladder	(50)	(50)	(50)	(50)	(50)
SYSTEMIC LESIONS					
Multiple Organ	*(50)	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma	1 (2%)				1 (2%)
Leukemia Mononuclear	1 (2%)	2 (4%)	2 (4%)		2 (4%)
Lymphoma Malignant	2 (4%)	1 (2%)	1 (2%)	1 (2%)	3 (6%)
Mesothelioma Malignant	1 (2%)	1 (2%)			

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* Number of animals with any tissue examined microscopically

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P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

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Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
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Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	30	36	34	43	40
Total Primary Neoplasms	55	73	52	66	66
Total Animals with Benign Neoplasms	25	31	28	37	29
Total Benign Neoplasms	46	64	40	53	46
Total Animals with Malignant Neoplasms	9	9	12	10	19
Total Malignant Neoplasms	9	9	12	12	19
Total Animals with Metastatic Neoplasms		2	3	4	2
Total Metastatic Neoplasms		2	3	5	11
Total Animals with Malignant Neoplasms Uncertain Primary Site					
Total Animals with Neoplasms Uncertain- Benign or Malignant				1	1
Total Uncertain Neoplasms				1	1

*** END OF MALE ***

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

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Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female
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Disposition Summary

Animals Initially In Study	50	50	50	50	50
Early Deaths					
Moribund Sacrifice	15	10	8	7	6
Natural Death	13	8	8	8	11
Survivors					
Moribund Sacrifice		1			
Natural Death			1	1	
Terminal Sacrifice	22	31	33	34	33
Animals Examined Microscopically	50	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(49)	(49)	(49)	(48)	(49)
Liposarcoma	1 (2%)				
Intestine Large, Colon	(49)	(50)	(49)	(49)	(50)
Intestine Large, Rectum	(50)	(50)	(50)	(49)	(50)
Intestine Small, Duodenum	(49)	(49)	(50)	(49)	(50)
Adenocarcinoma, Metastatic, Uterus					1 (2%)
Intestine Small, Ileum	(49)	(49)	(49)	(48)	(50)
Intestine Small, Jejunum	(49)	(49)	(49)	(49)	(50)
Schwannoma Malignant			1 (2%)		
Liver	(50)	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Pancreas		1 (2%)			
Adenocarcinoma, Metastatic, Uterus				1 (2%)	2 (4%)
Cholangioma	1 (2%)		1 (2%)		2 (4%)
Cholangioma, Multiple					1 (2%)
Hepatocellular Adenoma	1 (2%)	3 (6%)		3 (6%)	1 (2%)
Hepatocellular Adenoma, Multiple					2 (4%)
Squamous Cell Carcinoma, Metastatic, Uterus					1 (2%)
Mesentery	(3)	(3)	(1)	(1)	(4)
Adenocarcinoma, Metastatic, Pancreas		1 (33%)			
Adenocarcinoma, Metastatic, Uterus	1 (33%)	1 (33%)		1 (100%)	2 (50%)

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Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female
Granulosa-Theca Tumor Malignant, Metastatic, Ovary					1 (25%)
Squamous Cell Carcinoma, Metastatic, Uterus					1 (25%)
Pancreas	(49)	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus	1 (2%)	1 (2%)		1 (2%)	2 (4%)
Granulosa-Theca Tumor Malignant, Metastatic, Ovary					1 (2%)
Squamous Cell Carcinoma, Metastatic, Uterus					1 (2%)
Acinus, Adenocarcinoma		1 (2%)			
Acinus, Adenoma				1 (2%)	
Duct, Adenocarcinoma, Metastatic, Uterus			1 (2%)		
Salivary Glands	(50)	(50)	(49)	(50)	(49)
Stomach, Forestomach	(50)	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Pancreas		1 (2%)			
Adenocarcinoma, Metastatic, Uterus					2 (4%)
Stomach, Glandular	(50)	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Pancreas		1 (2%)			
Adenocarcinoma, Metastatic, Uterus			1 (2%)	1 (2%)	

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(50)	(50)	(50)	(50)
Heart	(50)	(50)	(50)	(50)	(50)
Schwannoma Malignant			1 (2%)	1 (2%)	1 (2%)

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus	1 (2%)		1 (2%)	1 (2%)	1 (2%)
Adenoma				2 (4%)	2 (4%)
Granulosa-Theca Tumor Malignant, Metastatic, Ovary					1 (2%)
Adrenal Medulla	(50)	(50)	(50)	(50)	(48)
Pheochromocytoma Benign		1 (2%)		1 (2%)	1 (2%)
Islets, Pancreatic	(49)	(50)	(50)	(50)	(50)

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Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female
Adenoma		1 (2%)	1 (2%)		
Parathyroid Gland	(44)	(39)	(45)	(44)	(46)
Pituitary Gland	(50)	(50)	(50)	(50)	(49)
Pars Distalis, Adenoma	11 (22%)	11 (22%)	10 (20%)	10 (20%)	10 (20%)
Pars Distalis, Carcinoma		1 (2%)			
Thyroid Gland	(50)	(50)	(50)	(50)	(49)
Bilateral, C-cell, Adenoma	1 (2%)	2 (4%)	2 (4%)		1 (2%)
C-cell, Adenoma	9 (18%)	10 (20%)	8 (16%)	9 (18%)	11 (22%)
C-cell, Carcinoma	2 (4%)		2 (4%)		1 (2%)
Follicular Cell, Adenoma	1 (2%)				

GENERAL BODY SYSTEM

Peritoneum	(0)	(1)	(0)	(0)	(0)
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GENITAL SYSTEM

Clitoral Gland	(46)	(49)	(50)	(47)	(49)
Squamous Cell Papilloma		1 (2%)			
Duct, Squamous Cell Papilloma					1 (2%)
Ovary	(50)	(50)	(50)	(49)	(50)
Adenocarcinoma, Metastatic, Pancreas		1 (2%)			
Adenocarcinoma, Metastatic, Uterus	1 (2%)			1 (2%)	2 (4%)
Granulosa Cell Tumor Benign					2 (4%)
Granulosa Cell Tumor Malignant		1 (2%)	3 (6%)		
Granulosa-Theca Tumor Benign	1 (2%)				
Granulosa-Theca Tumor Malignant					1 (2%)
Sarcoma			1 (2%)		
Oviduct	(1)	(0)	(0)	(1)	(0)
Carcinoma				1 (100%)	
Uterus	(50)	(50)	(50)	(49)	(50)
Adenocarcinoma, Metastatic, Pancreas		1 (2%)			
Hemangioma	1 (2%)				
Neural Crest Tumor		1 (2%)			
Polyp Stromal	4 (8%)	13 (26%)	4 (8%)	5 (10%)	12 (24%)

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Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female
Polyp Stromal, Cystic		1 (2%)	1 (2%)		
Polyp Stromal, Multiple	1 (2%)	1 (2%)	1 (2%)	2 (4%)	1 (2%)
Sarcoma		1 (2%)			
Squamous Cell Carcinoma				1 (2%)	1 (2%)
Squamous Cell Papilloma					1 (2%)
Cervix, Adenocarcinoma		1 (2%)			
Cervix, Neural Crest Tumor		1 (2%)			
Endometrium, Adenocarcinoma	3 (6%)	3 (6%)	6 (12%)	8 (16%)	8 (16%)
Endometrium, Adenoma				1 (2%)	1 (2%)
Endometrium, Granulosa-Theca Tumor Malignant, Metastatic, Ovary					1 (2%)
Vagina	(50)	(49)	(48)	(44)	(48)
Adenocarcinoma, Metastatic, Uterus					1 (2%)
Sarcoma	1 (2%)				
Squamous Cell Carcinoma, Metastatic, Uterus					1 (2%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)	(50)
Lymph Node	(8)	(4)	(3)	(5)	(7)
Adenocarcinoma, Metastatic, Uterus					1 (14%)
Deep Cervical, Carcinoma, Metastatic, Thyroid Gland			1 (33%)		
Inguinal, Granulosa-Theca Tumor Malignant, Metastatic, Ovary					1 (14%)
Lumbar, Granulosa-Theca Tumor Malignant, Metastatic, Ovary					1 (14%)
Mediastinal, Adenocarcinoma, Metastatic, Uterus	1 (13%)				1 (14%)
Mediastinal, Granulosa-Theca Tumor Malignant, Metastatic, Ovary					1 (14%)
Mediastinal, Squamous Cell Carcinoma, Metastatic, Uterus					1 (14%)
Pancreatic, Adenocarcinoma, Metastatic, Pancreas		1 (25%)			
Pancreatic, Adenocarcinoma, Metastatic, Uterus		1 (25%)			1 (14%)

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Pancreatic, Granulosa-Theca Tumor Malignant, Metastatic, Ovary					1 (14%)
Renal, Adenocarcinoma, Metastatic, Uterus	1 (13%)			1 (20%)	1 (14%)
Renal, Granulosa-Theca Tumor Malignant, Metastatic, Ovary					1 (14%)
Lymph Node, Mandibular Hemangioma	(50)	(50)	(49)	(50)	(49)
Lymph Node, Mesenteric Hemangioma	(49)	(49)	(49)	(50)	(49)
Adenocarcinoma, Metastatic, Uterus	1 (2%)				2 (4%)
Spleen	(49)	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Pancreas		1 (2%)			
Adenocarcinoma, Metastatic, Uterus	1 (2%)			1 (2%)	
Thymus	(50)	(48)	(49)	(48)	(48)
Adenocarcinoma, Metastatic, Uterus				1 (2%)	
Squamous Cell Carcinoma		1 (2%)			
Thymoma Malignant				1 (2%)	

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)	(50)
Adenocarcinoma	1 (2%)	3 (6%)	3 (6%)	4 (8%)	1 (2%)
Adenoma		1 (2%)			1 (2%)
Fibroadenoma	22 (44%)	27 (54%)	25 (50%)	14 (28%)	19 (38%)
Fibroadenoma, Multiple	7 (14%)	1 (2%)	4 (8%)	6 (12%)	4 (8%)
Duct, Adenocarcinoma		1 (2%)			
Skin	(50)	(50)	(50)	(50)	(50)
Pinna, Neural Crest Tumor			1 (2%)		
Subcutaneous Tissue, Fibroma	1 (2%)		3 (6%)	1 (2%)	2 (4%)
Subcutaneous Tissue, Fibrosarcoma	1 (2%)				
Subcutaneous Tissue, Sarcoma			1 (2%)	1 (2%)	

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)	(50)
Osteosarcoma					1 (2%)

a - Number of animals examined microscopically at site and number of animals with lesion

Test Type: Chronic PN

Tris(Chloropropyl)phosphate

Time Report Requested: 11:04:53

Route: DOSED FEED

CAS Number: 13674-84-5

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

Species/Strain: RATS/HSD

Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female
Skeletal Muscle	(1)	(1)	(0)	(1)	(2)
Adenocarcinoma, Metastatic, Pancreas		1 (100%)			
Adenocarcinoma, Metastatic, Uterus	1 (100%)			1 (100%)	2 (100%)

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)	(49)
Oligodendroglioma Malignant					1 (2%)
Peripheral Nerve	(0)	(0)	(0)	(1)	(0)

RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Mammary Gland		1 (2%)		1 (2%)	1 (2%)
Adenocarcinoma, Metastatic, Pancreas		1 (2%)			
Adenocarcinoma, Metastatic, Uterus	1 (2%)		1 (2%)	1 (2%)	2 (4%)
Alveolar/Bronchiolar Carcinoma, Multiple			1 (2%)		
Granulosa Cell Tumor Malignant, Metastatic, Ovary		1 (2%)			
Squamous Cell Carcinoma, Metastatic, Uterus					1 (2%)
Nose	(49)	(50)	(50)	(50)	(50)
Trachea	(50)	(50)	(50)	(50)	(50)

SPECIAL SENSES SYSTEM

Eye	(50)	(50)	(49)	(50)	(49)
Harderian Gland	(50)	(50)	(49)	(50)	(50)

URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus	1 (2%)				2 (4%)
Squamous Cell Carcinoma, Metastatic, Uterus					1 (2%)
Renal Tubule, Adenoma					2 (4%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Date Report Requested: 09/18/2020

Test Type: Chronic PN

Tris(Chloropropyl)phosphate

Time Report Requested: 11:04:53

Route: DOSED FEED

CAS Number: 13674-84-5

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

Species/Strain: RATS/HSD

Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female
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Urinary Bladder	(50)	(50)	(50)	(49)	(50)
Adenocarcinoma, Metastatic, Uterus	1 (2%)	1 (2%)	1 (2%)	1 (2%)	1 (2%)

SYSTEMIC LESIONS

Multiple Organ	*(50)	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma					1 (2%)
Leukemia Mononuclear	2 (4%)			4 (8%)	
Lymphoma Malignant					1 (2%)

a - Number of animals examined microscopically at site and number of animals with lesion

* Number of animals with any tissue examined microscopically

Experiment Number: 20712 - 03

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Date Report Requested: 09/18/2020

Test Type: Chronic PN

Tris(Chloropropyl)phosphate

Time Report Requested: 11:04:53

Route: DOSED FEED

CAS Number: 13674-84-5

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

Species/Strain: RATS/HSD

Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female
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Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	46	47	44	42	47
Total Primary Neoplasms	72	88	80	76	95
Total Animals with Benign Neoplasms	41	41	39	35	41
Total Benign Neoplasms	61	73	60	55	78
Total Animals with Malignant Neoplasms	10	13	15	20	16
Total Malignant Neoplasms	11	13	19	21	17
Total Animals with Metastatic Neoplasms	1	4	4	3	7
Total Metastatic Neoplasms	12	16	6	13	43
Total Animals with Malignant Neoplasms Uncertain Primary Site					
Total Animals with Neoplasms Uncertain- Benign or Malignant		2	1		
Total Uncertain Neoplasms		2	1		

*** END OF REPORT ***

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors