

Experiment Number: 20614 - 01
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/HSD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
Perfluorooctanoic Acid
CAS Number: 335-67-1

Date Report Requested: 07/25/2018
Time Report Requested: 12:59:28
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

Final 1_16 Week SSAC Only

NTP Study Number: C20614
Lock Date: 01/10/2012
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25017 SSAC
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: 07/25/2018

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Harlan Sprague Dawley RATS MALE

0/0 ppm

0/150 ppm

150/150 ppm

0/300 ppm

300/300 ppm

Disposition Summary

Animals Initially In Study	60	60	60	60	60
Scheduled Sacrifice	10	10	10	10	10
Early Deaths					
Survivors					
Animals Examined Microscopically	10	10	10	10	10

ALIMENTARY SYSTEM

Esophagus	(10)	(10)	(10)	(10)	(10)
Intestine Large, Cecum	(10)	(10)	(10)	(10)	(10)
Intestine Large, Colon	(10)	(10)	(10)	(10)	(10)
Intestine Large, Rectum	(10)	(10)	(10)	(10)	(10)
Intestine Small, Duodenum	(10)	(10)	(10)	(10)	(10)
Intestine Small, Ileum	(10)	(10)	(10)	(10)	(10)
Intestine Small, Jejunum	(10)	(10)	(10)	(10)	(10)
Liver	(10)	(10)	(10)	(10)	(10)
Clear Cell Focus		1 (10%)			2 (20%)
Extramedullary Hematopoiesis		1 (10%)			
Fibrosis, Focal					1 (10%)
Inflammation, Focal	8 (80%)	9 (90%)	9 (90%)	8 (80%)	8 (80%)
Necrosis		6 (60%)	2 (20%)	2 (20%)	4 (40%)
Pigment		8 (80%)	9 (90%)	10 (100%)	10 (100%)
Bile Duct, Hyperplasia				1 (10%)	2 (20%)
Centrilobular, Hepatocyte, Hypertrophy				4 (40%)	
Hepatocyte, Cytoplasmic Alteration		10 (100%)	10 (100%)	10 (100%)	10 (100%)
Hepatocyte, Hypertrophy		10 (100%)	10 (100%)	6 (60%)	10 (100%)
Hepatocyte, Single Cell Death		10 (100%)	9 (90%)	10 (100%)	10 (100%)
Pancreas	(10)	(10)	(10)	(10)	(10)
Salivary Glands	(10)	(10)	(10)	(10)	(10)
Stomach, Forestomach	(10)	(10)	(10)	(10)	(10)
Epithelium, Hyperplasia					2 (20%)
Submucosa, Inflammation, Chronic Active					3 (30%)
Stomach, Glandular	(10)	(10)	(10)	(10)	(10)
Epithelium, Erosion				1 (10%)	

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Harlan Sprague Dawley RATS MALE	0/0 ppm	0/150 ppm	150/150 ppm	0/300 ppm	300/300 ppm
Submucosa, Inflammation, Chronic Active		2 (20%)	2 (20%)	5 (50%)	2 (20%)
CARDIOVASCULAR SYSTEM					
Blood Vessel	(10)	(10)	(10)	(10)	(10)
Heart	(10)	(10)	(10)	(10)	(10)
Cardiomyopathy	4 (40%)				
ENDOCRINE SYSTEM					
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)
Hyperplasia	1 (10%)				
Hypertrophy	2 (20%)	1 (10%)			
Vacuolization Cytoplasmic				1 (10%)	
Adrenal Medulla	(10)	(10)	(10)	(10)	(10)
Islets, Pancreatic	(10)	(10)	(10)	(10)	(10)
Parathyroid Gland	(10)	(9)	(9)	(10)	(8)
Atrophy				1 (10%)	
Pituitary Gland	(10)	(10)	(10)	(10)	(10)
Cyst				1 (10%)	
Pars Distalis, Cyst		1 (10%)			
Rathke's Cleft, Hyperplasia, Tubular			1 (10%)		
Thyroid Gland	(10)	(10)	(10)	(10)	(10)
Follicular Cell, Hypertrophy		2 (20%)		6 (60%)	2 (20%)
GENERAL BODY SYSTEM					
None					
GENITAL SYSTEM					
Epididymis	(10)	(10)	(10)	(10)	(10)
Preputial Gland	(10)	(10)	(10)	(10)	(10)

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Prostate	(10)	(10)	(10)	(10)	(10)
Hyperplasia					1 (10%)
Seminal Vesicle	(10)	(10)	(10)	(10)	(10)
Testes	(10)	(10)	(10)	(10)	(10)
HEMATOPOIETIC SYSTEM					
Bone Marrow	(10)	(10)	(10)	(10)	(10)
Lymph Node, Mandibular	(10)	(10)	(10)	(10)	(10)
Atrophy		2 (20%)	2 (20%)	1 (10%)	1 (10%)
Lymph Node, Mesenteric	(10)	(10)	(10)	(10)	(10)
Atrophy				1 (10%)	2 (20%)
Spleen	(10)	(10)	(10)	(10)	(10)
Extramedullary Hematopoiesis					2 (20%)
Lymphoid Follicle, Atrophy				3 (30%)	1 (10%)
Thymus	(10)	(10)	(10)	(10)	(10)
Atrophy	1 (10%)			3 (30%)	2 (20%)
INTEGUMENTARY SYSTEM					
Mammary Gland	(10)	(10)	(10)	(10)	(10)
Skin	(10)	(10)	(10)	(10)	(10)
MUSCULOSKELETAL SYSTEM					
Bone	(10)	(10)	(10)	(10)	(10)
NERVOUS SYSTEM					
Brain	(10)	(10)	(10)	(10)	(10)
RESPIRATORY SYSTEM					

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Lung	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic Active		1 (10%)	1 (10%)	1 (10%)	
Alveolus, Infiltration Cellular, Histiocyte		1 (10%)	1 (10%)		
Nose	(10)	(10)	(10)	(10)	(10)
Trachea	(10)	(10)	(10)	(10)	(10)
<hr/>					
SPECIAL SENSES SYSTEM					
Eye	(10)	(10)	(10)	(10)	(10)
Harderian Gland	(10)	(10)	(10)	(10)	(10)
<hr/>					
URINARY SYSTEM					
Kidney	(10)	(10)	(10)	(10)	(10)
Accumulation, Hyaline Droplet	2 (20%)				
Fibrosis, Focal				1 (10%)	
Mineral			1 (10%)		
Nephropathy, Chronic Progressive	10 (100%)	4 (40%)	7 (70%)	4 (40%)	5 (50%)
Pelvis, Dilation	1 (10%)		1 (10%)		
Renal Tubule, Dilation					1 (10%)
Renal Tubule, Mineral		4 (40%)	1 (10%)	5 (50%)	6 (60%)
Urinary Bladder	(10)	(10)	(10)	(10)	(10)

*** END OF MALE ***

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150/300 ppm

0/1000 ppm

300/1000 ppm

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Scheduled Sacrifice	10	10	10	10	10
Early Deaths					
Survivors					
Animals Examined Microscopically	10	10	10	10	10

ALIMENTARY SYSTEM

Esophagus	(10)	(10)	(10)	(10)	(10)
Intestine Large, Cecum	(10)	(10)	(10)	(10)	(10)
Intestine Large, Colon	(10)	(10)	(10)	(10)	(10)
Intestine Large, Rectum	(10)	(10)	(10)	(10)	(10)
Intestine Small, Duodenum	(10)	(10)	(10)	(10)	(10)
Intestine Small, Ileum	(10)	(10)	(10)	(10)	(10)
Intestine Small, Jejunum	(10)	(10)	(10)	(10)	(10)
Liver	(10)	(10)	(10)	(10)	(10)
Extramedullary Hematopoiesis				1 (10%)	
Inflammation, Focal	6 (60%)	6 (60%)	10 (100%)	8 (80%)	6 (60%)
Necrosis				2 (20%)	
Pigment				2 (20%)	6 (60%)
Bile Duct, Hyperplasia		1 (10%)		1 (10%)	
Hepatocyte, Cytoplasmic Alteration				10 (100%)	10 (100%)
Hepatocyte, Hypertrophy				10 (100%)	10 (100%)
Hepatocyte, Single Cell Death				1 (10%)	
Pancreas	(10)	(10)	(10)	(10)	(10)
Salivary Glands	(10)	(10)	(10)	(10)	(10)
Stomach, Forestomach	(10)	(10)	(10)	(10)	(10)
Submucosa, Inflammation, Chronic Active		1 (10%)			
Stomach, Glandular	(10)	(10)	(10)	(10)	(10)

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(10)	(10)	(10)	(10)
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Harlan Sprague Dawley RATS FEMALE	0/0 ppm	0/300 ppm	150/300 ppm	0/1000 ppm	300/1000 ppm
Inflammation, Chronic Heart	1 (10%) (10)	(10)	(10)	(10)	(10)
ENDOCRINE SYSTEM					
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)
Adrenal Medulla	(10)	(10)	(10)	(10)	(10)
Islets, Pancreatic	(10)	(10)	(10)	(10)	(10)
Parathyroid Gland	(10)	(10)	(10)	(9)	(10)
Pituitary Gland	(10)	(10)	(10)	(10)	(10)
Thyroid Gland	(10)	(10)	(10)	(10)	(10)
Ectopic Thymus					1 (10%)
Follicular Cell, Hypertrophy				1 (10%)	4 (40%)
GENERAL BODY SYSTEM					
None					
GENITAL SYSTEM					
Clitoral Gland	(10)	(10)	(10)	(10)	(10)
Ovary	(10)	(10)	(10)	(10)	(10)
Cyst	4 (40%)	1 (10%)	3 (30%)		1 (10%)
Uterus	(10)	(10)	(10)	(10)	(10)
Endometrium, Hyperplasia, Cystic	1 (10%)				
HEMATOPOIETIC SYSTEM					
Bone Marrow	(10)	(10)	(10)	(10)	(10)
Lymph Node	(0)	(0)	(0)	(2)	(0)
Bronchial, Hemorrhage				1 (50%)	
Lymph Node, Mandibular	(10)	(10)	(10)	(10)	(10)
Atrophy				1 (10%)	1 (10%)

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Atrophy, Lymphocyte			1 (10%)	1 (10%)	
Atrophy, Lymphoid				1 (10%)	
Lymph Node, Mesenteric	(10)	(10)	(10)	(9)	(10)
Atrophy, Lymphocyte		1 (10%)			3 (30%)
Spleen	(10)	(10)	(10)	(10)	(10)
Extramedullary Hematopoiesis	2 (20%)				1 (10%)
Pigment	10 (100%)	7 (70%)	10 (100%)	10 (100%)	10 (100%)
Thymus	(10)	(10)	(10)	(10)	(10)
INTEGUMENTARY SYSTEM					
Mammary Gland	(10)	(10)	(10)	(10)	(10)
Skin	(10)	(10)	(10)	(10)	(10)
MUSCULOSKELETAL SYSTEM					
Bone	(10)	(10)	(10)	(10)	(10)
NERVOUS SYSTEM					
Brain	(10)	(10)	(10)	(10)	(10)
Cerebrum, Necrosis, Chronic					1 (10%)
RESPIRATORY SYSTEM					
Lung	(10)	(10)	(10)	(10)	(10)
Alveolus, Infiltration Cellular, Histiocyte	1 (10%)			1 (10%)	
Nose	(10)	(10)	(10)	(10)	(10)
Trachea	(10)	(10)	(10)	(10)	(10)
SPECIAL SENSES SYSTEM					
Eye	(10)	(10)	(10)	(10)	(10)

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Harderian Gland	(10)	(10)	(10)	(10)	(10)
<hr/>					
URINARY SYSTEM					
Kidney	(10)	(10)	(10)	(10)	(10)
Accumulation, Hyaline Droplet			1 (10%)		
Mineral	1 (10%)				
Nephropathy, Chronic Progressive	5 (50%)	7 (70%)	5 (50%)	6 (60%)	4 (40%)
Papilla, Urothelium, Hyperplasia				4 (40%)	4 (40%)
Pelvis, Inflammation, Chronic				1 (10%)	1 (10%)
Renal Tubule, Mineral	2 (20%)	1 (10%)	2 (20%)	7 (70%)	5 (50%)
Urinary Bladder	(10)	(10)	(10)	(10)	(10)
Inflammation					1 (10%)

*** END OF REPORT ***

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