

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

Final 2 Revision 1 - Core Only

NTP Study Number: C10260

Lock Date: 07/22/2014

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25021 TSAC

25020 NATD

25019 MSAC

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

TDMSE Version: 3.0.2.3_002

PWG Approval Date: 12/22/2016

Experiment Number: 10260 - 01

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HARLAN SPRAGUE DAWLEY RATS MALE 0 ppm Male	DAY ON TEST																									ANIMAL ID	males (cont...)
	0 7 3 1	0 7 3 1	0 7 3 1	0 7 2 9	0 7 2 9	0 7 2 9	0 6 7 3	0 6 9 4	0 7 3 0	0 7 3 0	0 7 3 0	0 7 2 9	0 7 2 9	0 6 3 0	0 6 8 0	0 7 2 9	0 6 7 0	0 6 7 5	0 7 2 4	0 7 2 9	0 6 2 6	0 7 2 9	0 6 2 9	0 5 4 0			
Hepatocyte, Necrosis																								1			
Hepatocyte, Vacuolization Cytoplasmic																											
Portal, Fibrosis																											
Serosa, Fibrosis																											
Mesentery																											
Artery, Inflammation, Chronic Active																											
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Acinus, Atrophy																											
Acinus, Hyperplasia																											
Arteriole, Inflammation, Chronic Active																											
Arteriole, Necrosis, Fibrinoid																											
Artery, Inflammation, Chronic Active																											
Artery, Necrosis																											
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation, Chronic Active																											
Epithelium, Hyperplasia																											
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Mineral																											

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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HARLAN SPRAGUE DAWLEY RATS MALE 0 ppm Male	DAY ON TEST																									ANIMAL ID	males (cont...)
	0 7 3 1	0 7 3 1	0 7 3 1	0 7 2 9	0 7 2 9	0 7 2 9	0 6 7 3	0 6 9 4	0 7 3 0	0 7 3 0	0 7 3 0	0 7 2 9	0 7 2 9	0 6 8 0	0 7 2 9	0 6 7 0	0 6 7 5	0 7 2 4	0 7 2 9	0 6 2 6	0 7 2 9	0 6 2 6	0 7 2 9	0 5 4 0			
Cardiomyopathy	2	1		1	1			2	1	1	2			2		1	1	2	1	1	1	1	2				
Infiltration Cellular, Mononuclear Cell									1																		
Artery, Inflammation, Chronic Active																			1								
Schwann Cell, Hyperplasia		2		2																							
Ventricle, Hypertrophy																											

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal	1	1						3			2		2	2	2	1	1	2		1				
Hypertrophy, Focal					2				2	1	1		2		1					3			2	
Necrosis																								
Vacuolization Cytoplasmic							1						1								1			
Bilateral, Atrophy																								
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia			3			1	2		2		2	1	3	1		1	1				1	1	1	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	2	4	4		1	2	4	4		3	4		2	1	4	2			2	4	4	4		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia		3	2	2					1	2				1						1			3	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia				3						4		4											1	

GENERAL BODY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
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 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0 ppm Male	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	ANIMAL ID	7	7	7	7	7	7	6	6	7	7	7	7	7	7	6	7	6	7	6	7	7	7	6	7	6	7	7	6	7	7	6	7	5	4	0
		3	3	3	2	2	2	7	9	3	3	3	2	2	3	8	2	7	2	7	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4
		1	1	1	9	9	9	3	4	0	0	0	9	9	0	0	9	0	9	5	9	4	9	6	9	6	9	6	9	6	9	6	9	6	9	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	2	3	5	6	7	8	9	0	1	4	5	6	7	8	9	2	2	1	2	3	5	7	8	9	1	2	3	5	7	8	9	1	3	
																												males (cont...)								

Peritoneum

GENITAL SYSTEM

Coagulating Gland																																					
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Hypospermia				4				4											4																		
Artery, Inflammation, Chronic Active												1																									
Penis																																					
Edema																																					
Inflammation, Chronic Active																																					
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative	1																																				
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative																																					1
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema																																					
Arteriole, Necrosis, Fibrinoid	1			3				3	2			3			2					3	3	2	4														
Germinal Epithelium, Atrophy				1	3			4	1			1								4	4																
Interstitial Cell, Hyperplasia																																					

HEMATOPOIETIC SYSTEM

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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HARLAN SPRAGUE DAWLEY RATS MALE 0 ppm Male	DAY ON TEST																									ANIMAL ID	males (cont...)	
	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731			0731
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	

Bone Marrow Hypercellularity	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	4	3	3	2	4	
Lymph Node Lumbar, Ectasia Mediastinal, Ectasia																													+			
Lymph Node, Mandibular Congestion	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Lymph Node, Mediastinal																												+				
Lymph Node, Mesenteric Congestion	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Spleen Extramedullary Hematopoiesis Pigment White Pulp, Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	2	1	3	2
Thymus Atrophy	+	+	+	+	+	M	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	4			3	2

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Skin Cyst Epithelial Inclusion Hyperkeratosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
																													X				
																													3				

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
X .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate
I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HARLAN SPRAGUE DAWLEY RATS MALE	7	7	7	7	7	7	6	6	7	7	7	7	7	7	6	7	6	7	6	7	7	6	7	6	7	5
0 ppm Male	3	3	3	2	2	2	7	9	3	3	3	2	2	3	8	2	7	2	7	2	2	2	2	2	4	
ANIMAL ID	1	1	1	9	9	9	3	4	0	0	0	9	9	0	0	9	0	9	5	9	4	9	6	7	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	
	1	2	3	5	6	7	8	9	0	1	4	5	6	7	8	9	0	1	2	2	3	5	7	8	9	
	males (cont...)																									

Inflammation, Chronic Active
Ulcer

4

MUSCULOSKELETAL SYSTEM

Bone

+ +

Skeletal Muscle
Degeneration

+ +
3

NERVOUS SYSTEM

Brain
Hemorrhage
Necrosis

+
2

Peripheral Nerve
Axon, Degeneration
Sciatic, Degeneration
Trigeminal, Degeneration

+ +
1
1
1

Spinal Cord
Axon, Degeneration

+ +
2 1

RESPIRATORY SYSTEM

Lung
Hemorrhage
Inflammation, Granulomatous
Alveolus, Hemorrhage
Alveolus, Infiltration Cellular, Histiocyte

+
2 1 1 2 2 1 2 1 1

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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X .. Lesion present

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| HARLAN SPRAGUE DAWLEY RATS
MALE
0 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 05 | 06 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 09 | 05 | 00 | 00 | 02 | 09 | 00 | 04 | 01 | 01 | 09 | 08 | 01 | 05 | 07 | 07 | 05 | 06 | 07 | 06 | 03 | 00 | 03 | 02 | |
| | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 06 | |
| | 02 | 03 | 04 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 04 | 05 | 06 | 07 | 09 | 00 | 01 | 03 | 04 | 05 | 07 | 08 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | X | 50
2 |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | 50
7 |
| Intestine Small, Duodenum
Artery, Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 2.0 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Clear Cell Focus | | | X | X | | X | X | | X | X | | | X | X | | | X | X | | X | X | X | X | X | 29 |
| Eosinophilic Focus | | | | | | | | | X | | | | X | | | | | | X | | | | | | 6 |
| Extramedullary Hematopoiesis | | | | | | | | | 1 | | | | | | | | | | | | | | | | 3 1.0 |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | X | | | | | | 1 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Bile Duct, Dilation | | | | | | | 2 | | | | | | | | | | | | | | | | | | 1 2.0 |
| Bile Duct, Hyperplasia | 1 | | | 1 | | 1 | 1 | | 1 | 1 | | | 2 | | 1 | | 1 | 1 | 1 | | 1 | 1 | | 20 1.1 | |
| Hepatocyte, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | 3 | | 2 2.5 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------|---------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|
| | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 05 | 06 | 07 | 07 | 06 | | 07 | 07 | 07 | 07 |
| 00 | 01 | 03 | 03 | 09 | 02 | 03 | 02 | 03 | 03 | 02 | 00 | 03 | 01 | 00 | 07 | 09 | 03 | 03 | 06 | 03 | 00 | 03 | 02 | 02 | 09 |
| 09 | 05 | 00 | 00 | 02 | 09 | 00 | 04 | 01 | 01 | 09 | 08 | 01 | 05 | 07 | 07 | 05 | 01 | 00 | 06 | 00 | 08 | 01 | 09 | 09 | |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 03 | 03 | 03 | 03 | 03 | 03 | 03 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 06 | 06 |
| 02 | 03 | 04 | 06 | 07 | 08 | 09 | 04 | 01 | 02 | 03 | 04 | 04 | 05 | 06 | 07 | 09 | 00 | 01 | 03 | 04 | 05 | 07 | 08 | 09 | 00 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|-----|
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 4 | 1.8 | |
| Portal, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 | 2.0 | |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Acinus, Atrophy | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 6 | 1.5 |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3 | 14 | 2.4 | |
| Arteriole, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4 | 1.5 | |
| Arteriole, Necrosis, Fibrinoid | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 15 | 1.7 | |
| Artery, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 3 | 2.3 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 1.5 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 2.0 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Mineral | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 | 2.0 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
0 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 05 | 06 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 09 | 05 | 03 | 03 | 09 | 02 | 03 | 02 | 03 | 03 | 02 | 00 | 03 | 01 | 00 | 07 | 09 | 03 | 03 | 06 | 03 | 00 | 03 | 02 | |
| | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 4 | 4 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 3 | 4 | 5 | 6 | |
| Cardiomyopathy | 1 | 2 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 2 | | 2 | 1 | 2 | 3 | 2 | 1 | | 1 | 2 | | 2 | 1 | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwann Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ventricle, Hypertrophy | | | | | | | | | | | | | | | | 3 | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Focal | 2 | | | | 2 | | | | | 1 | 2 | | | 1 | 1 | | | | 1 | | | | | 18 1.6 | |
| Hypertrophy, Focal | 2 | | | 2 | 2 | 3 | 1 | 3 | 2 | 1 | | | | | | | | 2 | 2 | | | 1 | 1 | 20 1.8 | |
| Necrosis | | | | | | | | | | | | | | | 1 | | | | | | | | | 1 1.0 | |
| Vacuolization Cytoplasmic | | | | | | | | | 1 | | | | | | | | | | | 2 | | | | 5 1.2 | |
| Bilateral, Atrophy | | | | | | | | | | | | | | | | 3 | | | | | | | | 1 3.0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | 2 | 1 | 1 | | | | 1 | | 1 | 3 | | | 3 | 2 | 1 | 1 | 2 | | | | 1 | 2 | 4 | 27 1.7 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hyperplasia | | | | | 1 | | | 4 | 4 | 2 | | | | 2 | 4 | | | | | 4 | | 4 | 1 | 1 | 27 2.9 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pars Distalis, Hyperplasia | | | | 1 | | | 1 | | 1 | | | | | | | 1 | | | 3 | | 2 | 1 | 2 | 16 1.7 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| C-cell, Hyperplasia | | | | | | 3 | | | | | | | | | | | | | | | 1 | | 2 | 7 2.6 | |

GENERAL BODY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
0 ppm Male | DAY ON TEST | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 05 | 06 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | * TOTALS |
| | ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | 1 |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|--------|
| Coagulating Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | M | 0 | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Hyposperimia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 7 4.0 |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 4 4 | 1 1.0 |
| Penis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | 2 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | | 49 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1 | 4 1.8 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |
| Arteriole, Necrosis, Fibrinoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2 2 4 1 1 | 16 2.3 |
| Germinal Epithelium, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3 4 4 4 4 | 13 2.9 |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
0 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|
| | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 05 | 06 | 07 | 07 | 06 | | 07 | 07 | 07 | 07 |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 66 |
| | 23 | 33 | 34 | 46 | 78 | 89 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 49 | 00 | 01 | 03 | 04 | 05 | 07 | 08 | 09 | 06 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Bone Marrow
Hypercellularity | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | 2 | | | | | | 4 | | | 2 | | | | | | 2 | | | | | | | | | 9 2.9 |
| Lymph Node
Lumbar, Ectasia | + | | | | | | | | | | | | | | | | | | | | + | | | | 4 |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Lymph Node, Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | 3 | | | 1 3.0 |
| Lymph Node, Mandibular
Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymph Node, Mediastinal | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mesenteric
Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Spleen
Extramedullary Hematopoiesis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | 2 | | | | 1 | 1 | 4 | | 1 | | | | 3 | | 2 | 2 | 3 | | 1 | | | | 2 | 1 | 21 1.8 |
| Pigment | | 1 | | 1 | 1 | | 2 | | 2 | | | 3 | | 2 | | 2 | 3 | | 1 | | 1 | | | | 21 1.6 |
| White Pulp, Atrophy | | | | | | | | | | | | | 3 | | 4 | | 2 | | 2 | | | | | | 5 3.0 |
| Thymus
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 46 |
| | 4 | 3 | | 3 | | | 3 | | | | 3 | 4 | | 3 | 4 | 4 | 3 | | 3 | | | | | | 17 3.4 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 49 |
| Skin
Cyst Epithelial Inclusion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

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Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
0 ppm Male | DAY ON TEST | 0
7 | 0
7 | 0
7 | 0
7 | 0
6 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
5 | 0
7 | 0
7 | 0
7 | 0
5 | 0
6 | 0
7 | 0
7 | 0
6 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | * TOTALS |
| | ANIMAL ID | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | |
| | | 9 | 5 | 0 | 0 | 2 | 9 | 0 | 4 | 1 | 1 | 9 | 8 | 1 | 5 | 7 | 7 | 5 | 6 | 7 | 3 | 6 | 3 | 0 | 3 | 2 | |

| | | | | | |
|---------------------------------------|---|---|---|-------|-------|
| Inflammation, Chronic Active
Ulcer | 2 | 2 | 3 | 3 3.0 | 1 2.0 |
|---------------------------------------|---|---|---|-------|-------|

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Skeletal Muscle
Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 3.0 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Sciatic, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Trigeminal, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Granulomatous | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 1.0 |
| Alveolus, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Alveolus, Infiltration Cellular, Histiocyte | | 1 | 2 | | 1 | 2 | | 1 | | | 1 | | | 3 | 3 | 1 | 1 | | 2 | | | | 1 | | | | 20 1.5 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------|---------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 05 | 06 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | |
| 09 | 01 | 03 | 03 | 09 | 02 | 03 | 02 | 03 | 03 | 02 | 00 | 03 | 01 | 05 | 07 | 07 | 05 | 03 | 03 | 06 | 03 | 08 | 03 | 02 | 50 |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 50 |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 50 |
| | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 06 | 42 |
| | 02 | 03 | 04 | 06 | 07 | 08 | 09 | 04 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 09 | 00 | 01 | 03 | 04 | 05 | 07 | 08 | 09 | 1.6 |

Alveolus, Infiltration Cellular, Mixed Cell Interstitium, Fibrosis

2 3.5
1 1.0

Nose
Olfactory Epithelium, Accumulation, Hyaline Droplet

+ 50
1 2 2 2 3 2 1 2 3 1 1 2 1 1 2 1 1 1 1 1 1 3 2 42 1.6

Trachea

+ 50

SPECIAL SENSES SYSTEM

Eye
Bilateral, Cornea, Inflammation, Chronic Active
Cornea, Inflammation, Chronic Active

+ 50
2 1 2.0
2 2.0

Harderian Gland

+ 50

URINARY SYSTEM

Kidney
Cyst
Nephropathy, Chronic Progressive
Pelvis, Inflammation, Suppurative

+ 50
X 1
3 3 3 3 3 3 4 4 3 3 1 3 3 4 3 2 2 3 4 3 3 4 2 2 50 2.9
1 1.0

Urinary Bladder
Inflammation, Suppurative

+ 50
1 3.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

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First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|-------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm Male | DAY ON TEST | 0731 | 0731 | 0731 | 0596 | 0668 | 0562 | 0683 | 0779 | 0779 | 0670 | 0723 | 0773 | 0773 | 0670 | 0676 | 0729 | 0446 | 0448 | 0166 | 0733 | 0733 | 0652 | males
(cont...) | | | |
| | ANIMAL ID | 00061 | 00062 | 00063 | 00064 | 00065 | 00066 | 00067 | 00068 | 00069 | 00070 | 00071 | 00072 | 00073 | 00074 | 00075 | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | | 00083 | 00084 | 00085 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | X | X | + | + |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | | | | | X | | | | | | | | | | X | | | | | | | | | | |
| Clear Cell Focus | X | | X | | | | | | X | X | | X | | X | X | | X | X | | | | X | X | X | |
| Eosinophilic Focus | | | | X | | | | | | | X | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | 2 | | | | | | | | | | | 1 | | | 1 | 1 | | | | | | |
| Hepatocyte, Necrosis | | | | | 1 | | | | | | | | | | | | | | | 3 | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | 2 | | | | | | | 2 | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|-------------|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 7 | 7 | 5 | 6 | 6 | 5 | 6 | 7 | 7 | 6 | 7 | 2 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 4 | 1 | 7 | 7 | | |
| 3 | 3 | 1 | 9 | 6 | 1 | 9 | 8 | 2 | 2 | 4 | 3 | 3 | 3 | 2 | 1 | 3 | 9 | 2 | 6 | 8 | 6 | 3 | 3 | 5 | | |
| 1 | 1 | 1 | 3 | 6 | 8 | 2 | 3 | 9 | 9 | 0 | 0 | 9 | 0 | 9 | 5 | 0 | 3 | 9 | 4 | 1 | 2 | 1 | 1 | 2 | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Acinus, Atrophy | | | 1 | | | | | | | | | | | | | | | | | | 2 | | |
| Acinus, Atrophy, Focal | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Acinus, Cyst | | | | | | | | | X | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | 3 | | | 2 | | | | | | | | | |
| Arteriole, Inflammation, Chronic Active | 1 | | 1 | | 1 | 1 | | | | | 2 | | | | 1 | | | 1 | | | | | |
| Arteriole, Necrosis, Fibrinoid | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Artery, Inflammation, Chronic Active | 1 | | 1 | | 1 | 1 | | | | 1 | 1 | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | X | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineral | | | | 2 | | | | | | | 3 | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Aorta, Hemorrhage | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Aorta, Mineral | | | | 2 | | | | | | | 3 | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | 1 | 2 | 2 | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | | | | 1 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Arteriole, Necrosis, Fibrinoid | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Atrium, Thrombus | | | | | 4 | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | |
|---------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|------|
| | 0731 | 0731 | 0731 | 0593 | 0661 | 0668 | 0569 | 0682 | 0778 | 0779 | 0670 | 0770 | 0233 | 0233 | 0733 | 0772 | 0773 | 0773 | 0676 | 0726 | 0468 | 0468 | 0166 | 0733 | | | 0773 | 0675 |
| 1000 ppm Male | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis
Hypospermia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Prostate
Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Seminal Vesicle
Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes
Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Arteriole, Necrosis, Fibrinoid | 1 | | 2 | | 3 | 3 | | | | | | | | | | | 2 | | 2 | 1 | | | | | | | |
| Germinal Epithelium, Atrophy | | | | | 1 | 1 | | 2 | | | 4 | | | | | 2 | | | | | | | | | | 2 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow
Hypercellularity | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen
Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Extramedullary Hematopoiesis | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigment | 1 | | 2 | | 4 | 4 | | 1 | | 3 | | | | | | 3 | | | | | | | | 1 | | 4 | |
| White Pulp, Atrophy | | | | | 2 | | 3 | 2 | 1 | 3 | | | 1 | 2 | 1 | | | 2 | | | | | | 1 | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm Male | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| | | | 2 | 3 | 4 | 3 | 2 | 3 | | | | 4 | | | | | 2 | | 2 | 3 | 3 | | | | | 2 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | 3 | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | 2 | | | | | 4 | | | | | | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | 2 | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cerebrum, Edema | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Cerebrum, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Cerebrum, Neuron, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Peripheral Nerve | | | | | | | | | | | + | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | + | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

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Lab: BAT

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MALE
1000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| | 0
7
3
1 | 0
7
3
1 | 0
7
1
1 | 0
5
9
3 | 0
6
6
8 | 0
6
1
2 | 0
5
9
3 | 0
6
8
2 | 0
7
2
9 | 0
7
2
9 | 0
6
4
0 | 0
7
3
0 | 0
2
3
9 | 0
7
3
9 | 0
7
1
5 | 0
7
3
0 | 0
6
2
3 | 0
7
4
4 | 0
4
8
1 | 0
4
6
2 | 0
1
6
1 | 0
7
3
1 | 0
7
3
1 | 0
6
5
2 | |
| ANIMAL ID | 0
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0
6
1 | 0
0
0
6
2 | 0
0
0
6
3 | 0
0
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6
4 | 0
0
0
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5 | 0
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6 | 0
0
0
6
7 | 0
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8 | 0
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9 | 0
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7
0 | 0
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7
1 | 0
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2 | 0
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7
3 | 0
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4 | 0
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7
6 | 0
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7
7 | 0
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0
7
8 | 0
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0 | 0
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1 | 0
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0
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2 | 0
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3 | 0
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0
8
4 | 0
0
0
8
5 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | 3 | | | | | | | | 3 | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 2 | 1 | | 1 | 3 | | | | | 2 | | | | | | | 1 | | | | 1 | | 1 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 2 | 1 | 1 | 2 | 2 | 2 | | 1 | 2 | 1 | 1 | 2 | | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Anterior Chamber, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | |
| Lens, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | + |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | X | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Nephropathy, Chronic Progressive | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 2 | 3 | 2 | 4 | 1 | 1 | 2 | 2 | 4 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 2 |
| Capsule, Hemorrhage | | | | | | | | | | | | | | | | 4 | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm Male | DAY ON TEST | 07 | 07 | 07 | 05 | 06 | 06 | 05 | 06 | 07 | 07 | 06 | 07 | 02 | 07 | 07 | 07 | 07 | 06 | 07 | 04 | 04 | 01 | 07 | 07 | 06 |
| | ANIMAL ID | 031 | 031 | 031 | 039 | 036 | 031 | 039 | 038 | 022 | 022 | 043 | 033 | 033 | 033 | 022 | 013 | 039 | 039 | 026 | 026 | 088 | 066 | 033 | 033 | 055 |
| | | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |

males
(cont...)

Pelvis, Inflammation, Suppurative

2

Urinary Bladder

+ +

Inflammation, Suppurative

1

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | 0730 | 0732 | 0739 | 0730 | 0733 | 0739 | 0732 | 0739 | 0739 | 0736 | 0739 | 0738 | 0730 | 0733 | 0731 | 0733 | 0737 | 0738 | 0731 | 0730 | | 0733 | 0737 | 0735 | 0737 |
| ANIMAL ID | 00086 | 00077 | 00088 | 00089 | 00001 | 00012 | 00023 | 00034 | 00045 | 00056 | 00067 | 00078 | 00089 | 00090 | 00101 | 00111 | 00121 | 00131 | 00141 | 00151 | 00161 | 00171 | 00181 | 00191 | 00201 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Acinus, Atrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Acinus, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Acinus, Hyperplasia | | | 3 | | | | | | | | | | | 3 | | 2 | | | 3 | | 3 | | | | | 7 2.7 |
| Arteriole, Inflammation, Chronic Active | | 2 | | | | | | | | 1 | 1 | | 1 | | | 2 | 1 | | | 1 | | | 1 | | | 15 1.2 |
| Arteriole, Necrosis, Fibrinoid | | 2 | | | | | | | | | | | | | | | | | | | | | | 2 | | 3 1.7 |
| Artery, Inflammation, Chronic Active | | | | 1 | | | | | 1 | 1 | 1 | | 1 | | | 2 | 1 | | | 1 | 1 | 1 | | | | 16 1.1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Chronic Active | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mineral | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Aorta, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Aorta, Mineral | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | | 1 | 1 | 44 1.2 |
| Fibrosis | | | | | | | | | | | | | | | | | | 1 | | | | | | | | 1 1.0 |
| Arteriole, Necrosis, Fibrinoid | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Atrium, Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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Lab: BAT

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|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------|
| HARLAN SPRAGUE DAWLEY RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| | 0
7
3
0 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
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9 | 0
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9 | 0
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9 | 0
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2
9 | 0
7
2
9 | 0
7
2
9 | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 ppm Male | 0
0
0
8
6 | 0
0
0
8
7 | 0
0
0
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8 | 0
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9 | 0
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0 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|--------------|
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hyperplasia, Focal | 2 1 2 1 | | | | | | | | | | | | | | | | | | | | | | | | | 18 | 1.7 |
| Hypertrophy, Focal | 2 1 2 1 1 1 2 1 1 1 1 1 2 2 1 | | | | | | | | | | | | | | | | | | | | | | | | | 23 | 1.3 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Vacuolization Cytoplasmic | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Hyperplasia | 1 2 4 1 4 | | | | | | | | | | | | | | | | | | | | | | | | | 13 | 1.5 |
| Islets, Pancreatic | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | 47 | |
| Hyperplasia | 4 1 4 | | | | | | | | | | | | | | | | | | | | | | | | | 18 | 3.8 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Pars Distalis, Hyperplasia | 2 1 3 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | | 17 | 2.1 |
| Pars Intermedia, Hyperplasia | 1 1 2 | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.7 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| C-cell, Hyperplasia | 4 2 3 3 1 | | | | | | | | | | | | | | | | | | | | | | | | | 9 | 2.8 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
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 2) Mild 4) Marked

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0730 | 0729 | 0722 | 0723 | 0733 | 0722 | 0729 | 0729 | 0729 | 0726 | 0729 | 0708 | 0700 | 0706 | 0707 | 0703 | 0703 | 0700 | 0703 | 0703 | 0703 | 0705 | 0707 | 0706 | |
| ANIMAL ID | 00086 | 00078 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00100 | 00101 | 00101 | 00101 | 00101 | 00101 | 00101 | 00101 | 00101 | 00101 | 00101 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Epididymis
Hypospermia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 11 | 4.0 | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Prostate
Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 3.5 | |
| Seminal Vesicle
Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 3.5 | |
| Testes
Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 3.0 | |
| Arteriole, Necrosis, Fibrinoid | | | 4 | 2 | 2 | | | 3 | | 4 | 3 | | | 4 | | | | 3 | 4 | | | 3 | 1 | | 3 | 19 | 2.6 | |
| Germinal Epithelium, Atrophy | 2 | | | | | | 1 | | 3 | | | | 4 | 2 | | | | 2 | 4 | | | 1 | 2 | 4 | 3 | 4 | 18 | 2.4 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Bone Marrow
Hypercellularity | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 12 | 2.9 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Spleen
Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 1.0 |
| Extramedullary Hematopoiesis | | | | 1 | | | 3 | | | | | | 3 | | 1 | | | | | | | 2 | | 2 | 14 | 2.4 | |
| Pigment | | | | 1 | | | | 1 | 1 | | | | | 1 | 1 | 2 | | 1 | 1 | 2 | 1 | | | 1 | 24 | 1.5 | |
| White Pulp, Atrophy | | | | | | | | | | | | | | | | 3 | | | | | | | | | 5 | 2.6 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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M .. Missing tissue

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 Lab: BAT

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HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm Male | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | | | | | | | | | | |
|--|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 0730 | 0729 | 0722 | 0723 | 0733 | 0722 | 0722 | 0729 | 0729 | 0726 | 0729 | 0728 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Thymus Atrophy | | | | | | | | | 2 | | 2 | | | 2 | | | 3 | 4 | | | | | 4 | | | 3 | | | | | | | | | | | 19 | 2.8 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|---|-----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.3 |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|---|-----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Cerebrum, Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Cerebrum, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Cerebrum, Neuron, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|
| | 0730 | 0732 | 0739 | 0733 | 0730 | 0732 | 0739 | 0733 | 0730 | 0732 | 0739 | 0733 | 0730 | 0732 | 0739 | 0733 | 0678 | 0733 | 0730 | 0732 | | 0739 | 0733 | 0573 | 0733 | 0678 | 0733 |
| ANIMAL ID | 00086 | 00077 | 00088 | 00089 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 |
| | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 0 | 3 | 3 | 1 | 3 | 3 | 7 | 0 | 3 | 3 | 3 | 7 | 3 | 8 | 3 | 3 | 1 |
| | 0 | 9 | 9 | 0 | 0 | 9 | 9 | 9 | 6 | 9 | 8 | 0 | 0 | 8 | 1 | 1 | 3 | 8 | 1 | 0 | 0 | 2 | 0 | 3 | 1 | 0 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Alveolus, Infiltration Cellular, Histiocyte | | 1 | | | | 1 | 2 | | 2 | | | 2 | 1 | | 1 | | | | | | | | | | | | 15 1.5 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | | | 2 | 1 | 1 | 47 1.5 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Anterior Chamber, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lens, Degeneration | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Nephropathy, Chronic Progressive | 2 | 4 | 3 | 4 | 3 | 1 | 3 | 3 | 4 | 2 | 1 | 4 | 2 | 2 | 2 | 2 | 4 | 4 | 1 | 3 | 4 | 4 | 4 | 4 | 3 | 50 | 2.7 |
| Capsule, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

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Species/Strain: RATS/HSD

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2-Hydroxy-4-methoxybenzophenone

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Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
3000 ppm Male | DAY ON TEST | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 04 | 05 | 07 | 07 | 05 | 06 | 06 | 06 | 07 | 06 | 07 | 07 | 06 | 06 | 06 | 07 | 07 |
| | ANIMAL ID | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 |

males (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Clear Cell Focus | X | X | X | | | | X | X | | | X | X | | | | | X | X | | | | | X | X | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | X | | X | X | | | | | |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | 1 | | | | | | | | | | | | | | | 1 | | | 1 | | | 1 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | 1 | | | | | | | | | 1 | | | | | | | 4 | | | 2 | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
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2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|
| | 0730 | 0733 | 0730 | 0732 | 0759 | 0770 | 0773 | 0777 | 0784 | 0755 | 0777 | 0775 | 0756 | 0766 | 0766 | 0777 | 0766 | 0777 | 0766 | 0766 | | | 0777 | 0777 | 0766 | 0766 | 0766 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 1 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Acinus, Hyperplasia | | 4 | | | 2 | | | | | | | 2 | | 4 | | | | | | | 1 | | 2 | | 1 | |
| Arteriole, Inflammation, Chronic Active | | | | | 1 | 2 | | | 1 | | | | | | | 1 | | | | 1 | | | | | | |
| Arteriole, Necrosis, Fibrinoid | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Artery, Inflammation, Chronic Active | | 1 | | 1 | 1 | 2 | | | 1 | | 1 | | | 1 | | 1 | | | | 1 | 1 | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | 1 | | | | | | | | | | | | | | | | | | | 1 | | | |
| Hemorrhage | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | 2 | | | | | | | | | | | | | | 1 | | | 2 | | | | | |
| Epithelium, Hyperplasia | | | | 2 | | | | | | | | | | | | | | 2 | | | 2 | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineral | | | | | 1 | | | | 3 | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Aorta, Mineral | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | | | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 2 | 1 | 1 | 1 | | 1 | 1 | 2 | 2 | 2 | | | | 1 | |
| Inflammation, Chronic Active | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrium, Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
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First Dose M/F: 11/08/10 / 11/09/10

Species/Strain: RATS/HSD

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 4 | 5 | 7 | 7 | 5 | 6 | 6 | 6 | 7 | 6 | 7 | 7 | 6 | | 6 | |
| | 3 | 3 | 3 | 2 | 9 | 0 | 3 | 3 | 8 | 7 | 2 | 2 | 6 | 7 | 4 | 4 | 3 | 7 | 1 | 3 | 4 | 8 | | |
| | 0 | 0 | 0 | 2 | 6 | 2 | 1 | 1 | 8 | 6 | 9 | 9 | 2 | 3 | 6 | 6 | 0 | 1 | 5 | 1 | 0 | 9 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | | |
| Hyperplasia, Focal | | 1 | | 1 | | 2 | | 2 | | 1 | 1 | | | | | | 1 | | 2 | | | 1 | 2 | |
| Hypertrophy, Focal | | 1 | 1 | | | 1 | 1 | | | | | | | | | | 1 | | 1 | 2 | 2 | 1 | 2 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| Thrombus | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | 1 | | | 2 | | | 1 | | | | 1 | 1 | | | 2 | 3 | | | | 2 | |
| Bilateral, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + |
| Hyperplasia | 1 | 4 | | 4 | | | | | | | | | | 4 | 4 | | | | | 4 | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | 1 | 3 | | | | | | | | | | | | |
| Pars Intermedia, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Hyperplasia | | | | | 4 | | | | | 4 | | | | | | | | | | | | | 3 | |

GENERAL BODY SYSTEM

Peritoneum

+

GENITAL SYSTEM

Epididymis
Hypospermia

+
4 4 4 4

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--------------------|
| | 0730 | 0733 | 0730 | 0732 | 0759 | 0770 | 0773 | 0777 | 0784 | 0757 | 0777 | 0756 | 0766 | 0766 | 0777 | 0766 | 0777 | 0773 | 0766 | 0766 | 0766 | 0777 | 0773 | 0777 | | |
| ANIMAL ID | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | 001111 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Prostate Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Seminal Vesicle Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes Necrosis Arteriole, Necrosis, Fibrinoid Germinal Epithelium, Atrophy | | 3 | | | 1 | 3 | | | | 2 | | | | 2 | 3 | | | | 3 | 2 | | 1 | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow Hypercellularity | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node | | | | + | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mediastinal | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen Extramedullary Hematopoiesis Pigment White Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10260 - 01

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Species/Strain: RATS/HSD

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2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

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First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | |
|---|-------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|---|
| | ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | | |
| | | | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 4 | 5 | 7 | 7 | 5 | 6 | 6 | 6 | 7 | 6 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | |
| | | | 3 | 3 | 3 | 2 | 9 | 0 | 3 | 3 | 8 | 7 | 2 | 2 | 6 | 7 | 4 | 4 | 3 | 7 | 1 | 3 | 4 | 8 | 9 | 2 | 0 | |
| | | | 0 | 0 | 0 | 2 | 6 | 2 | 1 | 1 | 8 | 6 | 9 | 9 | 2 | 3 | 6 | 6 | 0 | 1 | 5 | 1 | 0 | 9 | 8 | 9 | | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Thymus | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | 4 | | | | | | 4 | 2 | | | 4 | 3 | 3 | 4 | | 4 | 3 | | 4 | 2 | 2 | | 3 | |
| Arteriole, Necrosis, Fibrinoid | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | | | | | X | | | X | | | | | | | | | | | | | |
| Inflammation, Suppurative | 3 | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + .. Tissue examined microscopically | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X .. Lesion present | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I .. Insufficient tissue | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | |
|-------------|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 |
| 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 4 | 5 | 7 | 7 | 5 | 6 | 6 | 6 | 7 | 6 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | |
| 3 | 3 | 3 | 2 | 9 | 0 | 3 | 3 | 8 | 7 | 2 | 2 | 6 | 7 | 4 | 4 | 3 | 7 | 1 | 3 | 4 | 8 | 9 | 2 | 0 | |
| 0 | 0 | 0 | 2 | 6 | 2 | 1 | 1 | 8 | 6 | 9 | 9 | 2 | 3 | 6 | 6 | 0 | 1 | 5 | 1 | 0 | 9 | 8 | 9 | 9 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | 2 | | | | | | | 3 | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | 1 | 1 | 2 | 1 | | 2 | | | | | 3 | | | 1 | 2 | 1 | | 4 | | | | |
| Interstitialium, Edema | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Interstitialium, Fibrosis | | | | | | | | | | | | | 2 | | | | | | | 1 | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bilateral, Cornea, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | X | |
| Nephropathy, Chronic Progressive Epithelium, Accumulation, Hyaline Droplet | 3 | 4 | 2 | 4 | 4 | 4 | 2 | 4 | 2 | 2 | 2 | 2 | 4 | 3 | 4 | 1 | 2 | 2 | 4 | 4 | 2 | 1 | 1 | 2 |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | 1 | | | | | | | | | | | 1 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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Experiment Number: 10260 - 01

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Species/Strain: RATS/HSD

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CAS Number: 131-57-7

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Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| HARLAN SPRAGUE DAWLEY RATS
MALE
3000 ppm Male | DAY ON TEST | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 04 | 05 | 07 | 07 | 05 | 06 | 06 | 06 | 07 | 06 | 07 | 07 | 06 | 06 | 06 | 07 | 07 |
| | ANIMAL ID | 030 | 033 | 033 | 032 | 096 | 002 | 031 | 031 | 088 | 076 | 029 | 029 | 022 | 067 | 064 | 064 | 033 | 071 | 071 | 034 | 084 | 089 | 088 | 029 | 079 |
| | | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 |

males
(cont...)

Urinary Bladder

+ +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Lab: BAT

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MALE
3000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|
| | 0698 | 0729 | 0779 | 0779 | 0675 | 0664 | 0579 | 0763 | 0762 | 0773 | 0773 | 0676 | 0773 | 0573 | 0773 | 0476 | 0773 | 0577 | 0773 | 0476 | 0773 | 0476 | 0773 | | |
| ANIMAL ID | 00136 | 00137 | 00138 | 00139 | 00140 | 00141 | 00142 | 00143 | 00144 | 00145 | 00146 | 00147 | 00148 | 00149 | 00150 | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 50 | |
| | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 50 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 50 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
5 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Clear Cell Focus | | X | X | X | | | | X | X | X | X | | X | X | X | X | X | X | X | X | | X | | 27 |
| Eosinophilic Focus | | | X | | | | X | X | | X | | | | | | | | X | | | | | X | 9 |
| Extramedullary Hematopoiesis | | | | | | 1 | | | | | | | | | | | | | | | | | | 1 1.0 |
| Thrombus | | | | | 4 | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Bile Duct, Hyperplasia | 1 | 1 | | 1 | | | 1 | 1 | 1 | | 1 | | | | 1 | | | | | | | | | 12 1.0 |
| Hepatocyte, Necrosis | | | | 1 | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Hepatocyte, Vacuolization Cytoplasmic | 2 | | | | | | | | 2 | | | | | | | | | | | | | | | 6 2.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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Lab: BAT

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MALE
3000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0698 | 0729 | 0729 | 0729 | 0675 | 0664 | 0579 | 0073 | 0062 | 0072 | 0077 | 0077 | 0066 | 0077 | 0055 | 0077 | 0044 | 0077 | 0055 | 0077 | | 0044 |
| ANIMAL ID | 00136 | 00137 | 00138 | 00139 | 00140 | 00141 | 00142 | 00143 | 00144 | 00145 | 00146 | 00147 | 00148 | 00149 | 00150 | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Acinus, Hyperplasia | | 4 | | 1 | | | | 1 | | 1 | 4 | | | | 1 | | | | | | | | 1 | 14 2.1 |
| Arteriole, Inflammation, Chronic Active | 1 | | | 1 | | | 2 | | 2 | | | | | 2 | | | | | | | | | | 10 1.4 |
| Arteriole, Necrosis, Fibrinoid | | | | 2 | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Artery, Inflammation, Chronic Active | 1 | | | 1 | 1 | | 2 | 2 | 2 | | 1 | 1 | 2 | 2 | | | | | | | | | | 20 1.3 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |
| Epithelium, Hyperplasia | | | | | | | | | | | 2 | | | | | | | | | | | | | 4 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Stomach, Glandular Mineral | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Aorta, Mineral | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 2 | 42 1.2 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Atrium, Thrombus | | | | | | | | | | | 1 | | | | | | | | | | | | | 2 2.5 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|--------|--------|
| | 0698 | 0729 | 0779 | 0779 | 0675 | 0664 | 0579 | 0763 | 0672 | 0772 | 0772 | 0772 | 0676 | 0775 | 0577 | 0773 | 0773 | 0476 | 0773 | 0577 | | 0772 | 0473 | 0774 | 0774 | |
| ANIMAL ID | 00136 | 00137 | 00138 | 00139 | 00140 | 00141 | 00142 | 00143 | 00144 | 00145 | 00146 | 00147 | 00148 | 00149 | 00150 | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | 00159 | | |
| Hyperplasia, Focal | | | | | | 2 | | 2 | | 1 | 3 | 2 | | | 1 | 1 | | 3 | 2 | | | | | | 19 1.6 | |
| Hypertrophy, Focal | | | | 1 | | | | 2 | 1 | 1 | | 1 | 1 | | 1 | 1 | 2 | 2 | | 1 | | 2 | | 1 | 23 1.3 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Vacuolization Cytoplasmic | | | | | 3 | | | | | | | | | 1 | | | | | | | | | | | 3 2.3 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | 1 | 1 | | 1 | | | 1 | | 4 | 1 | | | | 1 | | | | | | | | | 15 1.5 | |
| Bilateral, Hyperplasia | | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 45 |
| Hyperplasia | | 3 | | 4 | 1 | | 4 | 4 | 4 | 1 | 4 | | 4 | | | | | | | | | | | | | 15 3.3 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pars Distalis, Hyperplasia | | | | 2 | | | | | | | | | 3 | 3 | | 1 | | | 1 | | 1 | | 2 | | 1 | 10 1.8 |
| Pars Intermedia, Hyperplasia | | | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 1.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| C-cell, Hyperplasia | | | | 3 | | 1 | 1 | | | | 4 | | | | | | | | | | | | | | | 7 2.9 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hypospermia | 4 | | | | | 4 | | 4 | 4 | | | | | | | | | | | | | | | | | 9 4.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

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2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

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Time Report Requested: 09:11:25

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|---|----|-------|
| | 0698 | 0729 | 0779 | 0779 | 0675 | 0665 | 0577 | 0676 | 0777 | 0777 | 0777 | 0676 | 0777 | 0575 | 0777 | 0474 | 0777 | 0575 | 0777 | 0474 | 0777 | 0474 | 0777 | | | | | |
| ANIMAL ID | 00136 | 00137 | 00138 | 00139 | 00140 | 00141 | 00142 | 00143 | 00144 | 00145 | 00146 | 00147 | 00148 | 00149 | 00150 | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 | |
| Prostate
Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 5 2.0 |
| Seminal Vesicle
Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 3.0 |
| Testes
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 4.0 |
| Arteriole, Necrosis, Fibrinoid | 3 | | | 3 | | | 3 | 3 | 3 | | 3 | | | 4 | | | | | | | | | | | | | 16 | 2.6 |
| Germinal Epithelium, Atrophy | 4 | | | 1 | | | | 4 | 3 | | | | | | | | | | | 4 | | | | | | | 12 | 3.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|--------|
| Bone Marrow
Hypercellularity | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 17 2.4 | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymph Node, Mediastinal | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Spleen
Extramedullary Hematopoiesis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 14 2.2 |
| Pigment | 3 | | | | 4 | | 1 | 3 | | 1 | | 1 | | 1 | | | 2 | 1 | | 2 | 1 | | | | | | 28 | 1.4 | |
| White Pulp, Atrophy | 1 | 1 | | 1 | 2 | | 1 | 1 | | 1 | | 1 | 1 | 2 | 1 | 3 | 1 | | 1 | 1 | | 2 | 1 | | | | 3 | 3.7 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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Lab: BAT

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MALE
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|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0698 | 0729 | 0779 | 0779 | 0675 | 0665 | 0577 | 0676 | 0777 | 0777 | 0777 | 0676 | 0777 | 0575 | 0777 | 0474 | 0777 | 0575 | 0777 | 0474 | 0777 | 0575 | 0777 | | |
| ANIMAL ID | 00136 | 00137 | 00138 | 00139 | 00140 | 00141 | 00142 | 00143 | 00144 | 00145 | 00146 | 00147 | 00148 | 00149 | 00150 | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | 00159 | |
| Thymus Atrophy Arteriole, Necrosis, Fibrinoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 48 | |
| | 4 | | | | 2 | 4 | 2 | | 4 | | | | | | | 2 | | | | | | 4 | | 2 | 21 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3.1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skin Cyst Epithelial Inclusion Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | X | | | | | | | | | | | | X | | | | | | | | 4 |
| | | | | | | | | | | | | | | | | | | | | | | | 4 | | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2.7 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2.0 |

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
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MALE
3000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | 0698 | 0729 | 0779 | 0779 | 0675 | 0669 | 0573 | 0762 | 0762 | 0773 | 0773 | 0773 | 0676 | 0773 | 0573 | 0773 | 0473 | 0773 | 0573 | 0773 | | 0473 | 0773 | | |
| ANIMAL ID | 00136 | 00137 | 00138 | 00139 | 00140 | 00141 | 00142 | 00143 | 00144 | 00145 | 00146 | 00147 | 00148 | 00149 | 00150 | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | 00159 | 00160 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hemorrhage | | | | | | | | | | | | | 3 | | | | | | | | | | | | 3 | 2.7 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | 1 | | 1 | | 1 | | | | | 3 | | 1 | | | | 1 | | 1 | | | | 18 | 1.6 | |
| Interstitial, Edema | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Interstitial, Fibrosis | | | | | | | | | | | | | 2 | | | | | | | | | | | | 3 | 1.7 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 1 | 2 | 2 | 1 | 2 | 3 | 1 | 2 | | | 1 | 2 | | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 47 | 1.6 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Bilateral, Cornea, Inflammation, Chronic Active | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | + | 1 |
| Metaplasia, Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Nephropathy, Chronic Progressive | 4 | 2 | 1 | 4 | 4 | 2 | 4 | 3 | 4 | 2 | 4 | 2 | 4 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 1 | 2 | 50 | 2.7 |
| Epithelium, Accumulation, Hyaline Droplet | | | | | | | 4 | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
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Lab: BAT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|-----------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|----|
| | 3000 ppm Male | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0698 | 0799 | 0799 | 0799 | 0675 | 0664 | 0599 | 0730 | 0674 | 0779 | 0779 | 0779 | 0779 | 0660 | 0738 | 0573 | 0733 | 0733 | 0463 | 0731 | 0757 | 0749 | 0743 | 0723 | 0730 | 0742 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
10000 ppm Male | DAY ON TEST | 0730 | 0730 | 0731 | 0622 | 0312 | 0723 | 0733 | 0733 | 0730 | 0665 | 0665 | 0002 | 0709 | 0709 | 0700 | 0700 | 0677 | 0666 | 0773 | 0773 | 0722 | 0733 | 0723 | 0733 | 0701 | 0707 | |
| | ANIMAL ID | 00161 | 00162 | 00163 | 00164 | 00165 | 00166 | 00167 | 00168 | 00169 | 00170 | 00171 | 00172 | 00173 | 00174 | 00175 | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

males (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Parasite Metazoan
Arteriole, Necrosis, Fibrinoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | X | | X | | | X | | | | | | | | | | | | | | | | | | | | | X |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | X | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Cholangiofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | | | X | X | | | X | X | | | X | X | | X | | X | | | X | X | X | X | X | X | X | X | X |
| Eosinophilic Focus | | | | | X | | | | | | | | | | X | | X | | X | | | | | X | | | |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Bile Duct, Hyperplasia | | | | | | | | 1 | | 1 | | | | 1 | | 1 | | 1 | | | | 1 | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | 1 | | 1 | | | 1 | | | | | | | 1 | 1 | 2 | 4 | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

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Test Type: Chronic PN

2-Hydroxy-4-methoxybenzophenone

Time Report Requested: 09:11:25

Route: DOSED FEED

CAS Number: 131-57-7

First Dose M/F: 11/08/10 / 11/09/10

Species/Strain: RATS/HSD

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------|---|---|
| | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| HARLAN SPRAGUE DAWLEY RATS MALE | | 7 | 7 | 7 | 6 | 3 | 7 | 7 | 7 | 7 | 6 | 6 | 0 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 10000 ppm Male | | 3 | 3 | 3 | 2 | 1 | 2 | 3 | 3 | 3 | 2 | 4 | 5 | 2 | 2 | 3 | 1 | 2 | 2 | 1 | 1 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 |
| | | 0 | 0 | 0 | 1 | 6 | 6 | 9 | 1 | 1 | 0 | 5 | 5 | 6 | 9 | 9 | 0 | 0 | 8 | 9 | 7 | 9 | 1 | 1 | 3 | 3 | 2 | 3 | 0 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 8 | 8 | 9 | 9 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | males (cont...) | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Mesentery | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | | | | | |
| Arteriole, Inflammation, Chronic Active | 1 | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| Artery, Inflammation, Chronic Active | 1 | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1 | | |
| Periductal, Cholangiofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineral | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | |
| Arteriole, Necrosis, Fibrinoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | |
| Mineral | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | | | | | |
| Tongue | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
10000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|
| | 0730 | 0730 | 0731 | 0626 | 0631 | 0777 | 0777 | 0777 | 0777 | 0666 | 0666 | 0000 | 0777 | 0777 | 0777 | 0777 | 0777 | 0666 | 0666 | 0777 | | | 0777 | 0777 | 0777 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 8 | 9 |

Aorta, Mineral

2 2 4

Heart

Cardiomyopathy

Endocardium, Proliferation

+
1 2 1 1 1 2 1 1 2 1 1 2 2 1 2 1 1 2 1 1 1 1 1 1

ENDOCRINE SYSTEM

Adrenal Cortex

Hyperplasia, Focal

Hyperplasia, Diffuse

Hypertrophy, Focal

Thrombus

Vacuolization Cytoplasmic

+
1 2 2 1 1 2 2 2 1 2 1 1 2 1 2 2 1 2 2 1 2
3
1 2 1 2 1
4 1 1

Adrenal Medulla

Hyperplasia

+
3 1 2 1

Islets, Pancreatic

Fibrosis

+ +

Parathyroid Gland

Hyperplasia

+ M +
4 4

Pituitary Gland

Pars Distalis, Hyperplasia

+
2 1 2 3 1 2 1 2 2 1 2 1 2 2 1 1 2 1 2 1 2 1 2 1

Thyroid Gland

C-cell, Hyperplasia

+ +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS MALE | 7 | 7 | 7 | 6 | 3 | 7 | 7 | 7 | 7 | 6 | 6 | 0 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| 10000 ppm Male | 3 | 3 | 3 | 2 | 1 | 2 | 3 | 3 | 3 | 2 | 4 | 5 | 2 | 2 | 3 | 1 | 2 | 2 | 1 | 1 | 3 | 3 | 2 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 8 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

males (cont...)

GENERAL BODY SYSTEM

Peritoneum

GENITAL SYSTEM

Epididymis
Hypospermia

+
4 4

Penis

+

Preputial Gland

+ +

Prostate
Inflammation, Suppurative
Epithelium, Hyperplasia

+ + + + + + + + + + + M + + + + + + + + + + + + + + + +
1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3

Seminal Vesicle
Atrophy
Inflammation, Suppurative

+
3 3

Testes
Arteriole, Necrosis, Fibrinoid
Germinal Epithelium, Atrophy
Interstitial Cell, Hyperplasia

+
3 2 2 4 3 2 3 3 1 2 2 4 4 1 1 4 4 1 3 1 3 1 3 1
4 2 1 3 1 2 4 4 1 1 4 4 1 1 4 4 1 3 1 3 1 3 1 3

HEMATOPOIETIC SYSTEM

Bone Marrow
Hypercellularity

+
2 4 4 4 2

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
10000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---------------------------|--------------------|
| | 0
7
3
0 | 0
7
3
0 | 0
7
3
1 | 0
6
2
6 | 0
3
1
6 | 0
7
2
9 | 0
7
3
1 | 0
7
3
1 | 0
7
3
0 | 0
6
2
5 | 0
6
4
5 | 0
0
5
6 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
2
8 | 0
6
1
7 | 0
6
1
9 | 0
7
3
1 | 0
7
3
1 | 0
7
2
9 | 0
7
3
1 | 0
7
2
3 | 0
7
3
0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00116611 | males
(cont...) |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00116611 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 116611 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 666666 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 8 | 1234567890123478901234689 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Lymph Node
Lumbar, Ectasia | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Ectasia | 4 | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Lymph Node, Mandibular
Inflammation, Suppurative | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Pigment | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1 2 1 3 |
| White Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 3 4 |
| Thymus | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 4 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|
| Mammary Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | X X |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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Lab: BAT

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MALE
10000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 7 | 7 | 6 | 3 | 7 | 7 | 7 | 7 | 6 | 6 | 0 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | |
| | 3 | 3 | 3 | 2 | 1 | 2 | 3 | 3 | 3 | 2 | 4 | 5 | 2 | 2 | 3 | 1 | 2 | 2 | 1 | 1 | 3 | 3 | 2 | 3 | 3 | |
| | 0 | 0 | 0 | 1 | 6 | 9 | 1 | 1 | 0 | 5 | 5 | 6 | 9 | 9 | 0 | 0 | 8 | 9 | 7 | 9 | 1 | 1 | 9 | 1 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 8 | 9 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | | | | | + | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Histiocytic | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Proteinosis | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 2 | 2 | 2 | | | | 2 | | | | | | 1 | 1 | | | 1 | 1 | | | | | | | |
| Interstitial, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitial, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | | 1 | | 1 | 2 | | 2 | | 1 | 1 | 2 | 3 | 1 | 1 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS
MALE
10000 ppm Male | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 7 | 7 | 7 | 6 | 3 | 7 | 7 | 7 | 7 | 6 | 6 | 0 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 3 | 3 | 3 | 2 | 1 | 2 | 3 | 3 | 3 | 2 | 4 | 5 | 2 | 2 | 3 | 1 | 2 | 2 | 1 | 1 | 3 | 3 | 2 | 3 | 3 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 8 | 9 | | |
| males (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Nephropathy, Chronic Progressive | 4 | 3 | 4 | 4 | 1 | 2 | 2 | 2 | 4 | 2 | 3 | 1 | 3 | 4 | 4 | 4 | 4 | 1 | 4 | 4 | 2 | 2 | 4 | 2 | 3 | |
| Pelvis, Dilation | | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | 2 | | 3 | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Suppurative | | | | | | | | | | | | | | | 2 | | 1 | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
10000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|------------|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | | |
| | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 7 | | 7 | 3 | 5 | 6 | |
| | 3 | 2 | 2 | 2 | 6 | 4 | 3 | 0 | 2 | 2 | 3 | 3 | 3 | 3 | 1 | 2 | 3 | 3 | 2 | 2 | 3 | 8 | 7 | 9 | | |
| | 0 | 9 | 9 | 9 | 8 | 6 | 1 | 9 | 4 | 9 | 1 | 0 | 0 | 0 | 2 | 9 | 0 | 0 | 9 | 9 | 9 | 0 | 6 | 8 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | |
| | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 9 | 0 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 8 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1.0 | |
| Arteriole, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 6 | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 2.2 | |
| Periductal, Cholangiofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 11 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1.3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 18 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1.2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Mineral | | | | | | | | | | | | | | | | | | | | | | | | | 2.0 | |
| Arteriole, Necrosis, Fibrinoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Mineral | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2.0 | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3.0 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

| HARLAN SPRAGUE DAWLEY RATS
MALE
10000 ppm Male | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | * TOTALS |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|
| | | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 2 | 3 | 3 | 3 | | |
| | | 3 | 2 | 2 | 2 | 6 | 4 | 3 | 0 | 2 | 2 | 3 | 3 | 3 | 1 | 2 | 3 | 3 | 2 | 2 | 3 | 8 | 7 | 9 | | |
| | | 0 | 9 | 9 | 9 | 8 | 6 | 1 | 9 | 4 | 9 | 1 | 0 | 0 | 2 | 9 | 0 | 0 | 9 | 9 | 9 | 0 | 0 | 8 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | |
| | | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 9 | 0 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | | |

Aorta, Mineral

3 2.7

Heart

50

Cardiomyopathy

41 1.2

Endocardium, Proliferation

1 2.0

ENDOCRINE SYSTEM

Adrenal Cortex

50

Hyperplasia, Focal

20 1.5

Hyperplasia, Diffuse

1 3.0

Hypertrophy, Focal

27 1.3

Thrombus

1 1.0

Vacuolization Cytoplasmic

5 2.8

Adrenal Medulla

50

Hyperplasia

12 1.5

Islets, Pancreatic

50

Fibrosis

1 3.0

Parathyroid Gland

48

Hyperplasia

23 3.6

Pituitary Gland

50

Pars Distalis, Hyperplasia

16 1.6

Thyroid Gland

50

C-cell, Hyperplasia

4 2.5

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
10000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
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0 | 0
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9 | 0
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9 | 0
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9 | 0
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8 | 0
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6 | 0
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1 | 0
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9 | 0
7
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4 | 0
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9 | 0
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3
1 | 0
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0 | 0
7
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2 | 0
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0 | 0
7
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9 | 0
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0 | | 0
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7
6 | 0
6
9
8 | |
| ANIMAL ID | 0
0
1
9
0 | 0
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1
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1 | 0
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0
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9
3 | 0
0
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9
4 | 0
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6 | 0
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7 | 0
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8 | 0
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0 | 0
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3 | 0
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4 | 0
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6 | 0
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7 | 0
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2
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8 | 0
0
2
2
9 | 0
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1 | 0
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2 | 0
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4 | 0
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8 |

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|-------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|--------------|
| Lymph Node | | | | | | | | | | | | | | | | | | | | | 5 | |
| Lumbar, Ectasia | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Mediastinal, Congestion | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Renal, Congestion | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Renal, Ectasia | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|--------------|
| Lymph Node, Mandibular
Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | 50 | 1 2.0 |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|--------------|

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|--|
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | 50 | |
|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|--|

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|---------------|
| Spleen | | | | | | | | | | | | | | | | | | | | | 50 | |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | 17 2.2 |
| Pigment | | | | | | | | | | | | | | | | | | | | | | 27 1.5 |
| White Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | 9 3.1 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|---------------|
| Thymus | | | | | | | | | | | | | | | | | | | | | 49 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | 16 3.1 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|--|
| Mammary Gland | | | | | | | | | | | | | | | | | | | | | 50 | |
|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|--|

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|--------------|
| Skin | | | | | | | | | | | | | | | | | | | | | 50 | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | 3 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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MALE
10000 ppm Male | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|----------|
| | ANIMAL ID | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 3 | 2 | 2 | 2 | 6 | 4 | 3 | 0 | 2 | 2 | 3 | 3 | 3 | 1 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 8 | 7 | 9 | |
| Bone | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Skeletal Muscle | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Hemorrhage | | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Inflammation, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Proteinosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Alveolus, Infiltration Cellular, Histiocyte | | 3 | | | | 1 | | | 2 | 1 | 1 | | 1 | | | | | 1 | | | 2 | | | | 17 1.5 | |
| Interstitial, Fibrosis | | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Interstitial, Inflammation, Chronic | | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Nose | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | | | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 44 1.4 |
| Trachea | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Harderian Gland | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
10000 ppm Male | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 2 | 2 | 3 | 3 | | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 8 | 0 | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | | | | | | | | X | | | | | | | | X | | | | | | | | 3 | |
| Nephropathy, Chronic Progressive | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 2 | 4 | 2 | 2 | 1 | 4 | 4 | 2 | 4 | 3 | 4 | 4 | 4 | 4 | 2 | 1 | 2 | 3 | 50 | 3.0 |
| Pelvis, Dilation | | | | 2 | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | 3 | | | | | | | | | | | 3 | 2.7 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | 2 | | | | | | | | | | | 3 | 1.7 |

*** END OF MALE DATA ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

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First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm Female | DAY ON TEST | 0
4 | 0
5 | 0
7 | 0
3 | 0
6 | 0
7 | 0
7 | 0
7 | 0
5 | 0
7 | 0
6 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
6 | 0
7 | 0
6 | 0
4 | 0
6 | 0
5 | females
(cont...) |
| | ANIMAL ID | 6
6 | 9
6 | 3
2 | 8
7 | 0
3 | 3
1 | 3
1 | 3
1 | 7
1 | 3
4 | 4
1 | 3
3 | 3
1 | 3
1 | 3
1 | 3
0 | 3
0 | 3
0 | 4
1 | 3
2 | 4
1 | 7
8 | 6
4 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | X | | | X | | | | | | | | | | | | X | |
| Clear Cell Focus | | | | | | | | X | X | | X | | | | X | X | X | | X | | | X | | |
| Eosinophilic Focus | | | | | | | X | X | X | | | | | X | X | | | X | X | | X | | | |
| Extramedullary Hematopoiesis | | | | | | 1 | | | | | 1 | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | X | |
| Bile Duct, Cyst | | | | X | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Hypertrophy | | | | | | 3 | | | | | | | | | 3 | | | | | | | 1 | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2) Mild 4) Marked

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Species/Strain: RATS/HSD

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Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm Female | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|----------------------|
| | 0
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2 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 002222222222222222222222234578912334578 | | |

Fat, Necrosis

4

Pancreas

+ +

Acinus, Atrophy

1

Arteriole, Inflammation, Chronic Active

1

Artery, Inflammation, Chronic Active

1

Salivary Glands

+ +

Stomach, Forestomach

+ +

Stomach, Glandular

+ +

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart

+ +

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Hyperplasia, Focal

1

1

1

2

1

1

Hypertrophy, Focal

3

1

2

2

3

2

1

1

3

1

1

Bilateral, Hypertrophy, Focal

3

Adrenal Medulla

+ +

Hyperplasia

1

1

1

Islets, Pancreatic

+ +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm Female | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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| ANIMAL ID | 0
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|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Parathyroid Gland | + | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Nervosa, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenomyosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dilation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Atypical Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------------|-----------------------|-----------------------|-----------------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm Female | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | |
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|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vagina
Mucification | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | 2 | | | | | | | | 2 | | | 2 | | | | | | | 2 | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow
Hypercellularity | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | 4 | 4 | 3 | | 4 | 4 | | 4 | 3 | 4 | 3 | | 4 | | | 4 | 2 | 4 | 1 | 4 | 4 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen
Extramedullary Hematopoiesis
Pigment
White Pulp, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | 3 | 4 | 1 | | 3 | 3 | 1 | 4 | 2 | 1 | | 1 | 1 | | 3 | | 3 | | 4 | | |
| | 1 | 2 | 1 | | 1 | 1 | | 1 | 1 | 1 | | 1 | 2 | 1 | 1 | 1 | 2 | | 1 | | 2 | 1 | 2 | |
| | | 3 | | | | | | | | 3 | | | | | | | | | | | | | | |
| Thymus
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + |
| | 2 | 3 | | 1 | | | | 2 | | 4 | | | | | | | | | | | | 2 | 3 | 3 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland
Galactoceles
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | 3 | | | | 3 | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically

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Lab: BAT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) |
|---|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 4 | 5 | 7 | 3 | 6 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 4 | 6 | 5 | 0 | |
| 6 | 9 | 3 | 8 | 0 | 3 | 3 | 3 | 7 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 7 | 6 | 8 | 0 | |
| 6 | 6 | 2 | 7 | 3 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 2 | 1 | 8 | 4 | 2 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 2 | |
| 2 | 3 | 4 | 5 | 7 | 8 | 9 | 1 | 2 | 3 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 1 | 3 | 4 | 4 | 5 | 7 | 8 | 2 | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Meninges, Hyperplasia, Granular Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 2 | | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 3 | 2 | 1 | 2 | 3 | 1 | 1 | 2 | 1 | 2 | 1 | 3 | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Nephropathy, Chronic Progressive | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm Female | DAY ON TEST | 04 | 05 | 07 | 03 | 06 | 07 | 07 | 07 | 05 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 06 | 04 | 06 | 05 |
| | ANIMAL ID | 06 | 09 | 03 | 08 | 00 | 03 | 03 | 03 | 07 | 03 | 04 | 03 | 03 | 03 | 03 | 03 | 03 | 04 | 03 | 04 | 03 | 04 | 06 |
| | | 06 | 06 | 02 | 07 | 03 | 01 | 01 | 01 | 01 | 04 | 01 | 01 | 01 | 01 | 01 | 00 | 00 | 01 | 02 | 01 | 08 | 04 | 02 |
| | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| | | 22 | 22 | 22 | 22 | 22 | 22 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 25 | 25 |
| | | 22 | 23 | 24 | 25 | 27 | 28 | 29 | 21 | 22 | 23 | 24 | 25 | 27 | 28 | 29 | 20 | 21 | 23 | 24 | 25 | 27 | 28 | 29 |

females
(cont...)

Pelvis, Dilation

4

Urinary Bladder

+ + + + + + + + + + M + + + + + + + + + + + + + +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--------------|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | 0730 |
| 0 ppm Female | 00253 | 00254 | 00256 | 00257 | 00258 | 00259 | 00260 | 00261 | 00262 | 00263 | 00264 | 00265 | 00266 | 00267 | 00268 | 00269 | 00270 | 00271 | 00272 | 00273 | 00274 | 00275 | 00276 | 00277 | 00278 | 00279 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Basophilic Focus | | | | | | | | X | X | X | | | | | | | | | | | | | | | | | 6 |
| Clear Cell Focus | X | | | | X | | | | | X | | | | X | | | | | | | | | | | | | 12 |
| Eosinophilic Focus | | X | | | X | | | | | X | | | | X | | X | X | | | | | | | | | | 15 |
| Extramedullary Hematopoiesis | | | | | | | | | | 1 | | | | | 1 | 1 | | | | | | 1 | 1 | | 1 | | 8 1.0 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bile Duct, Cyst | | | | | | | | | | X | | | | | | | | | | | | | | | | | 2 |
| Hepatocyte, Hypertrophy | | 3 | | | | | | | | | | | | | | | | | | | | | | 3 | | | 5 2.6 |
| Hepatocyte, Necrosis | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | 2 1.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm Female | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|-------|--------|--|
| | | 7 | 7 | 4 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 3 | 7 | 5 | 7 | 7 | 7 | 7 | 3 | 5 | | 7 | 5 | |
| | ANIMAL ID | 3 | 3 | 2 | 9 | 3 | 1 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 7 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 7 | | 3 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | | |
| | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Acinus, Atrophy | | | | | | | | | | | | | 1 | | | | | | | | | | | | 2 1.0 | | |
| Arteriole, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Heart | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Focal | | | | 1 | | | | | | | | | 1 | | | | | 2 | | | | | | | | 9 1.2 | |
| Hypertrophy, Focal | 2 | 4 | | 2 | 2 | 2 | 3 | 2 | 2 | | 2 | | | | | | | 3 | 1 | | | | | 3 | 1 | 24 2.0 | |
| Bilateral, Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | 3 | | | 2 | 1 | | 2 | 1 | 1 | 2 | | 1 | | | | | | 1 | | | | | | | | 12 1.4 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
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| ANIMAL ID | 00253 | 00254 | 00256 | 00257 | 00258 | 00259 | 00260 | 00261 | 00262 | 00263 | 00266 | 00267 | 00268 | 00269 | 00270 | 00271 | 00272 | 00273 | 00274 | 00275 | 00276 | 00277 | 00278 | 00279 | 00280 | 41 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Parathyroid Gland | + | M | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | M | + | M | + | 41 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pars Distalis, Hyperplasia | | | | 2 | | | 2 | | | | | | 4 | | | | | | | | | | 1 | | 13 | 2.2 | |
| Pars Intermedia, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Pars Nervosa, Cyst | | | | | | | | | | | | | | | | | | | | | | X | | | | 1 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| C-cell, Hyperplasia | | | | | | 3 | | | | | | | | | | | | | | | | | 1 | | 3 | 11 | 2.0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 48 | |
| Fibrosis | | | | | | | | | | | | | | | 4 | | | | | | | | | | | 1 | 4.0 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | X | | X | | | | | | | X | | | | | | | | X | | | | 5 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Adenomyosis | | | | | | | 3 | | | | | | 2 | | | | | | | | | | | | | 3 | 2.7 |
| Dilation | | | | 2 | | | | | | | | 1 | | | | | | | | | | | | | | 2 | 1.5 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 |
| Endometrium, Atypical Hyperplasia | 1 | | | | | | 1 | | | | | 3 | | | | | | | | | | | | | | 9 | 2.0 |
| Endometrium, Hyperplasia, Cystic | 2 | 2 | 2 | 2 | | 1 | 2 | 2 | 3 | 2 | | 3 | 3 | 1 | 2 | 1 | 2 | 2 | | | | 3 | 2 | | 1 | 35 | 1.9 |
| Endometrium, Metaplasia, Squamous | 2 | 2 | 2 | 3 | | 4 | 2 | 2 | 2 | 3 | | 2 | 1 | | 2 | 2 | 1 | 2 | | | | 1 | 1 | | | 36 | 2.2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 7 | 7 | 4 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 3 | 7 | 5 | 7 | 7 | 7 | 7 | 3 | 5 | 7 | 5 | 5 | |
| | 3 | 3 | 2 | 9 | 3 | 1 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 7 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 7 | 3 | 0 | 0 | |
| | 0 | 0 | 4 | 4 | 2 | 0 | 2 | 1 | 1 | 0 | 1 | 2 | 2 | 9 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 4 | 1 | 0 | 5 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mucification | | | | | 2 | | | | | | 2 | | | | | | | 1 | 2 | | | | | 2 | | 9 1.9 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hypercellularity | | | 3 | 4 | 4 | | 4 | 4 | 3 | 4 | 4 | | | 4 | 4 | 4 | 4 | 4 | | | | 3 | 4 | 4 | | 4 | 34 3.7 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Extramedullary Hematopoiesis | 1 | 1 | 4 | 4 | | 3 | 1 | | 2 | 4 | | | | 3 | 4 | 1 | 4 | 3 | 2 | 2 | 1 | | 4 | 4 | | 3 | 33 2.6 | |
| Pigment | 1 | | | | 1 | 1 | 1 | 1 | | | | | | 1 | 1 | 1 | | | | | 2 | 3 | | 1 | | 2 | 31 1.3 | |
| White Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Atrophy | | | 2 | 3 | | 2 | | | | | 3 | | | | 3 | | 3 | | | | | | | 2 | 3 | | 3 | 17 2.6 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Galactocele | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Hyperplasia | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm Female | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|--|
| | 0730 | 0733 | 0730 | 0734 | 0736 | 0737 | 0736 | 0737 | 0737 | 0737 | 0736 | 0737 | 0737 | 0737 | 0733 | 0737 | 0735 | 0737 | 0737 | 0737 | 0737 | 0733 | 0735 | 0737 | | 0735 | |
| ANIMAL ID | 00253 | 00254 | 00256 | 00257 | 00258 | 00259 | 00260 | 00261 | 00262 | 00263 | 00264 | 00265 | 00266 | 00267 | 00268 | 00269 | 00270 | 00271 | 00272 | 00273 | 00274 | 00275 | 00276 | 00277 | 00278 | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Meninges, Hyperplasia, Granular Cell | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Alveolus, Infiltration Cellular, Histiocyte | 2 | 3 | | 2 | | 3 | 1 | 2 | 2 | | 3 | 2 | 2 | | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | | 38 1.9 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | | 3 | 2 | 2 | 2 | 49 1.9 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Nephropathy, Chronic Progressive | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 44 1.1 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 I .. Insufficient tissue
 M .. Missing tissue
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Lab: BAT

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|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm Female | DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
| | ANIMAL ID | | 7 | 7 | 4 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 3 | 7 | 5 | 7 | 7 | 7 | 7 | 3 | 5 | 7 | 5 | 7 | 5 | |
| | 3 | 3 | 2 | 9 | 3 | 1 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 7 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 7 | 3 | 0 | 5 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | | |
| | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | | |

Pelvis, Dilation

1 4.0

Urinary Bladder

+ 49

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically

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Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS FEMALE | | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 4 | 7 | 7 | 7 |
| 1000 ppm Female | | 3 | 3 | 3 | 7 | 3 | 3 | 7 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 4 | 5 | 3 | 1 | 3 |
| ANIMAL ID | | 1 | 1 | 1 | 2 | 1 | 1 | 4 | 4 | 0 | 0 | 0 | 0 | 1 | 1 | 9 | 1 | 1 | 5 | 8 | 1 | 4 | 2 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | 1 | 1 | |
| Basophilic Focus | X | X | | | | X | | | | X | X | | | | | | | | | | | X |
| Clear Cell Focus | X | | | | | | | | | X | X | | | X | | | | | | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | X | | | | | | | X | | | X | | | | | X | | | | X |
| Extramedullary Hematopoiesis | | | | 1 | | | | | | | | | | | | | | | 1 | 1 | | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | 1 | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | 1 | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1000 ppm Female | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | | | | | |
| | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 4 | 7 | 7 | 7 | 5 | 7 | 7 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 7 | 3 | 3 | 7 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 4 | 5 | 3 | 1 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 1 | 1 | 1 | 2 | 1 | 1 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 9 | 1 | 5 | 8 | 1 | 4 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Arteriole, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy, Focal | 2 | 2 | | | 1 | 3 | 2 | 2 | 2 | 1 | 3 | 2 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 3 | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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FEMALE
1000 ppm Female | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|------|------|
| | 0731 | 0731 | 0731 | 0672 | 0771 | 0771 | 0674 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0579 | 0771 | 0771 | 0675 | 0478 | | | 0771 | 0771 | 0771 | 0575 | 0777 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 0 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland
Hyperplasia | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | 2 | | 2 | 2 | | | | 1 | 1 | 1 | | | | | | 2 | |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | 1 | 2 | | 4 | 2 | | | 2 | | 3 | | | 4 | | 2 | | | + | + | + | + | + | + |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Bursa, Cyst | | | X | | X | | | | X | X | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenomyosis | 3 | | | | | | | | | | | | | 4 | 1 | 2 | | | | | | | | 1 | 3 |
| Dilation | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Cervix, Stromal Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1000 ppm Female | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
7
2 | 0
7
3
1 | 0
7
3
1 | 0
6
7
4 | 0
7
1
4 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
1 | 0
7
3
1 | 0
5
2
9 | 0
7
3
1 | 0
7
3
1 | 0
6
4
5 | 0
4
5
8 | 0
7
3
1 | 0
7
3
4 | 0
5
0
4 | 0
7
3
2 | 0
7
3
2 | |
| ANIMAL ID | 0
0
2
8
1 | 0
0
2
8
2 | 0
0
2
8
3 | 0
0
2
8
4 | 0
0
2
8
5 | 0
0
2
8
6 | 0
0
2
8
7 | 0
0
2
8
8 | 0
0
2
8
9 | 0
0
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0 | 0
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8
1 | 0
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2
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2 | 0
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3 | 0
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4 | 0
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5 | 0
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6 | 0
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2
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7 | 0
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8 | 0
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9 | 0
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2
8
0 | 0
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2
8
1 | 0
0
2
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2 | 0
0
2
8
3 | 0
0
2
8
4 | 0
0
2
8
5 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Endometrium, Atypical Hyperplasia | | | | | | | | | | | 2 | 1 | | | | 1 | 1 | | | | 1 | | | | 2 |
| Endometrium, Hyperplasia, Cystic | 2 | 3 | | | | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | | | 1 | 1 | | |
| Endometrium, Metaplasia, Squamous | 2 | 2 | 2 | | 3 | 4 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 2 | 2 | | 3 | 2 | 2 | |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mucification | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | | X |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hypercellularity | 4 | | 4 | | | 4 | 4 | | | 1 | 4 | | | 4 | 3 | | 4 | 4 | | 4 | 4 | 2 | | 4 | |
| Lymph Node | | | | + | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | 4 | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Extramedullary Hematopoiesis | 1 | | 2 | | | | | 3 | | | | | | 4 | | 1 | 2 | 3 | | 4 | 2 | 2 | | 1 | |
| Hemorrhage | | | | 4 | | | | | | | | | | | | | | | | | | | | | |
| Pigment | 1 | 1 | 1 | | 1 | | 2 | | 2 | 1 | 1 | 2 | 2 | 1 | | | 1 | | | 2 | | 1 | 1 | 2 | 1 |
| White Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | 3 | | | | | 2 | 4 | | | | | | | 3 | | | 2 | 3 | | 4 | | 3 | |

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

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Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) |
|---------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE | | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 4 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | | |
| 1000 ppm Female | | 3 | 3 | 3 | 7 | 3 | 3 | 7 | 1 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 4 | 5 | 3 | 1 | 3 | 0 | 3 | 3 | 3 | | |
| ANIMAL ID | | 1 | 1 | 1 | 2 | 1 | 1 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Mammary Gland Galactocele Hyperplasia | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skin | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung Hemorrhage Hyperplasia, Squamous Pigment | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolus, Cytoplasmic Alteration | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte Interstitium, Fibrosis | | 2 | | 2 | 2 | 2 | 2 | 3 | 1 | | 2 | 2 | 3 | 2 | 1 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | | 1 | 2 | | |
| Nose Olfactory Epithelium, Accumulation, Hyaline Droplet | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea | | 2 | 3 | 2 | 3 | 2 | 2 | | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | | 2 | 2 | 2 | 2 | 1 | |
| | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) |
|--------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE | | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 4 | 7 | 7 | 7 | 5 | 7 | 7 | | |
| 1000 ppm Female | | 3 | 3 | 3 | 7 | 3 | 3 | 7 | 1 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 4 | 5 | 3 | 1 | 3 | 0 | 3 | 3 | 3 | | |
| ANIMAL ID | | 1 | 1 | 1 | 2 | 1 | 1 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy, Chronic Progressive | 1 | 1 | 2 | | 2 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 2 | 2 | 1 | 1 | 1 | 2 | 1 | | |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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Species/Strain: RATS/HSD

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1000 ppm Female | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | ANIMAL ID | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 3 | 3 | 7 | 7 | 7 | 7 | 4 | 7 | |
| | 1 | 8 | 9 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 4 | 3 | 1 | 0 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | |
| | 8 | 0 | 4 | 2 | 2 | 2 | 2 | 3 | 0 | 0 | 0 | 2 | 1 | 2 | 7 | 8 | 0 | 1 | 1 | 2 | 2 | 3 | 2 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------|-----------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 | |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
3 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | 2 | | | 3 1.3 | |
| Basophilic Focus | | | | | | | | | | | X | X | | | | | | X | X | | | X | | 11 | |
| Clear Cell Focus | | | | | | | | | | | X | X | | | | | | X | X | | | | X | 9 | |
| Congestion | | | | | | | | | | | | | | | | | | | | 3 | | | | 1 3.0 | |
| Eosinophilic Focus | | | | | | | | | | | | | | | X | | | | | | | | | 6 | |
| Extramedullary Hematopoiesis | | | | 1 | | | | | | | | | 1 | 1 | | | | | | 1 | | | | 7 1.0 | |
| Bile Duct, Cyst | | | | | | | X | | | | | | | | | | | | | X | | | | 2 | |
| Hepatocyte, Hypertrophy | | | | | | | | | | | | 2 | | | | | | | | | | 3 | | 2 2.5 | |
| Hepatocyte, Necrosis | | | 2 | | | | | | | | | | | | | | 2 | | | | | | | 3 1.7 | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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FEMALE
1000 ppm Female | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 06188 | 06690 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | |
| ANIMAL ID | 00306 | 00307 | 00308 | 00309 | 00310 | 00311 | 00312 | 00313 | 00314 | 00315 | 00316 | 00317 | 00318 | 00319 | 00320 | 00321 | 00322 | 00323 | 00324 | 00325 | 00326 | 00327 | 00328 | 00329 | 00330 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Arteriole, Inflammation, Chronic Active | | | | 1 | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Artery, Inflammation, Chronic Active | | | | 1 | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 3.0 | |
| Hyperplasia, Focal | | | | | | | | 2 | 1 | 2 | 1 | | | | | | | | | | | | | | | 8 1.6 | |
| Hypertrophy, Focal | | | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | | | 2 | 2 | 1 | 3 | | | 2 | 2 | | 42 1.8 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Vacuolization Cytoplasmic | | | | | | 1 | | | | 1 | | | | | | | | | | | | | | | | | 3 1.0 |
| Bilateral, Hyperplasia, Focal | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | 4 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1000 ppm Female | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 06188 | 06690 | 06732 | 06733 | 06733 | 06733 | 06732 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | |
| ANIMAL ID | 00306 | 00307 | 00308 | 00309 | 00310 | 00311 | 00312 | 00313 | 00314 | 00315 | 00316 | 00317 | 00318 | 00319 | 00320 | 00321 | 00322 | 00323 | 00324 | 00325 | 00326 | 00327 | 00328 | 00329 | 00330 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parathyroid Gland
Hyperplasia | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 47
1 2.0 |
| Pituitary Gland
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
13 1.8 |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
11 2.4 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ovary
Cyst
Inflammation, Suppurative
Bursa, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2
1 2.0
4 |
| Uterus
Adenomyosis
Dilation
Hemorrhage
Inflammation, Suppurative
Cervix, Stromal Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
8 2.3
2 1.5
2 2.5
1 4.0
1 3.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

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First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|-----------------------------------|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|----|-----|-----|
| | 06188 | 06690 | 06732 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | | 06733 | | | | | | |
| ANIMAL ID | 1000 ppm Female | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00306 | 00307 | 00308 | 00309 | 00310 | 00311 | 00312 | 00313 | 00314 | 00315 | 00316 | 00317 | 00318 | 00319 | 00320 | 00321 | 00322 | 00323 | 00324 | 00325 | 00326 | 00327 | 00328 | 00329 | 00330 | | | |
| Endometrium, Atypical Hyperplasia | | 3 | | 1 | | | 1 | | 1 | 2 | 2 | | | | | | 2 | | 1 | | | | | | | 14 | 1.5 | |
| Endometrium, Hyperplasia, Cystic | 1 | | | | | 2 | 2 | | 1 | 2 | 2 | 2 | 1 | 1 | 1 | | 3 | 1 | 2 | | | 1 | 2 | | | 30 | 1.7 | |
| Endometrium, Metaplasia, Squamous | 2 | | | 1 | | 1 | 2 | 2 | 1 | 1 | 1 | | | | 3 | 2 | | 1 | 2 | | | | | 1 | | 35 | 2.0 | |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Mucification | | | | | 2 | | | | | | | | | | | | | | | | | 2 | | | | 2 | 2.0 | |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hypercellularity | | | 4 | | | | 1 | 4 | 4 | | 3 | 4 | 4 | 3 | | | 3 | | | 4 | 4 | | 4 | | | 26 | 3.5 | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lymph Node, Mesenteric Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 4.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Extramedullary Hematopoiesis | 4 | 3 | 3 | | 1 | | | 4 | 1 | | 1 | 3 | 4 | | | | 3 | 2 | | | 2 | 4 | 1 | 3 | | 26 | 2.5 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Pigment | | 1 | 1 | 1 | 1 | 1 | 2 | | 1 | 1 | | | | 1 | 2 | 2 | 1 | | 1 | 3 | | | 1 | 1 | | 33 | 1.3 | |
| White Pulp, Atrophy | | | | | | | | | | | | | | | | 3 | | | | | | | | | | 2 | 3.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | 2 | 3 | 4 | | | | | 4 | | | | | | 3 | | 2 | 2 | | | | | | | 2 | | 16 | 2.9 | |

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1000 ppm Female | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--|
| | 06188 | 06690 | 06732 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | 06733 | | 06733 | |
| ANIMAL ID | 00306 | 00307 | 00308 | 00309 | 00310 | 00311 | 00312 | 00313 | 00314 | 00315 | 00316 | 00317 | 00318 | 00319 | 00320 | 00321 | 00322 | 00323 | 00324 | 00325 | 00326 | 00327 | 00328 | 00329 | 00330 | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Galactoceles | | | 3 | | | | | | | | 2 | | | | 2 | 3 | | | | | | | | | 5 | | |
| Hyperplasia | | | | | | | | | 1 | | | | | | | | | | | | | | | | 2 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hemorrhage | | | 3 | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Pigment | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Alveolus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Alveolus, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 | | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 2 | 4 | 3 | | 2 | 1 | 2 | | | 2 | 2 | 2 | | 2 | 1 | | 3 | | | 1 | | | 2 | 2 | | |
| Interstitial, Fibrosis | | | 2 | | | | | | | | | | | | | | | | | | | | | | 38 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 1 | 1 | 2 | 2 | 48 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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Experiment Number: 10260 - 01

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Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3000 ppm Female | DAY ON TEST | 0730 | 0730 | 0730 | 0671 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0676 | 0776 | 0661 | 0771 | |
| | ANIMAL ID | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 4 | 4 | 4 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parasite Metazoan | | | | | X | | | | | | | | | | | | | | | | | | | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parasite Metazoan | | | | | | | | | | | | | X | | | | X | | | | | | | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | | | | X | X | | X | | X | | X | | X | X | | | | | | X | | | | |
| Clear Cell Focus | X | | | | | | X | | X | | X | X | X | | X | X | | | | | | | | |
| Cyst | | | | | X | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | X | | | X | X | X | | | | | | | X | | X | X | X | | X | | X | | | |
| Extramedullary Hematopoiesis | | | | | | | | | | | 1 | | | | 1 | | | | | | | | | |
| Pigment | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Bile Duct, Cyst | | | | | | | | X | | | | X | X | | | | | | X | | X | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3000 ppm Female | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | ANIMAL ID | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 1 | 7 | | |
| | | 3 | 0 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 8 | 3 | 6 | 0 | 3 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|---|--|--|--|--|--|--|---|--|--|--|--|--|--|---|--|---|--|--|--|
| Hepatocyte, Hypertrophy | 2 | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | 2 | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | | | | | | | | | | | | | | | | | | | | | | | |
| Arteriole, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Salivary Glands | + | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Stomach, Glandular | + | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|
| Blood Vessel | + | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | | | | | | | | | | | | | | | | | | | | | | | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | 1 1 | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|--|-----|--|---|--|-----|--|-----|--|---|--|---|--|---|-----|---|---|---|---|---|--|---|--|---|--|
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | 2 | | 1 | | | | | | | | | | | | | 1 1 | | 2 | | 1 | | | | | | |
| Hypertrophy, Focal | 2 | | 1 1 | | 2 | | 1 1 | | 2 2 | | 3 | | 2 | | 2 | | 1 | | 2 | | 1 | | 2 | | 2 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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X .. Lesion present
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| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3000 ppm Female | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | |
| ANIMAL ID | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | 00351 | 00352 | 00353 | 00354 | 00355 | 00356 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vacuolization Cytoplasmic | | | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 |
| Adrenal Medulla Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland Hyperplasia | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Intermedia, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | X | X | | X | | | | | | | X | | X | | | | | | | | | | | | | |
| Uterus Adenomyosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Dilation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3000 ppm Female | DAY ON TEST | 0730 | 0730 | 0730 | 0671 | 0771 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0676 | 0776 | 0671 | 0777 | females
(cont...) | |
| | ANIMAL ID | 0030 | 0039 | 0030 | 0034 | 0031 | 0031 | 0031 | 0031 | 0031 | 0031 | 0031 | 0031 | 0031 | 0031 | 0031 | 0031 | 0031 | 0031 | 0031 | 0038 | 0033 | 0036 | | 0031 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | | 3 |

Hyperplasia

1

Skin

Erosion

+ +

MUSCULOSKELETAL SYSTEM

Bone

+ +

NERVOUS SYSTEM

Brain

Gliosis

Inflammation, Histiocytic

Necrosis

+ +

1

RESPIRATORY SYSTEM

Lung

Alveolus, Infiltration Cellular, Histiocyte

+ +

2 2 1 1 1 2 1 1 2 2 2 3 1 2 1 2 2 1 2 1 3 1

Nose

Olfactory Epithelium, Accumulation, Hyaline Droplet

+ +

2 1 2 2 2 2 1 2 2 2 2 2 2 2 2 1 2 2 2 1 2 1 2

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye

+ +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE

3000 ppm Female | DAY ON TEST | 0730 | 0730 | 0730 | 0671 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0676 | 0776 | 0676 | 0771 | 0771 | |
| | ANIMAL ID | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females
(cont...)

Harderian Gland

+ +

URINARY SYSTEM

Kidney
Mineral
Nephropathy, Chronic Progressive

+
 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 1 2

Urinary Bladder

+ +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-------------|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|
| | 3000 ppm Female | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 7 | 7 |
| | 3 | 0 | 0 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 1 | 3 | 3 | 4 | 0 | 3 | 3 | 3 | 2 |
| | 1 | 9 | 3 | 0 | 0 | 0 | 0 | 8 | 2 | 2 | 5 | 2 | 2 | 2 | 2 | 1 | 5 | 2 | 1 | 1 | 1 | 0 | 7 | 2 | 2 | 2 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | | | | | X | | | | | X | | X | | | | | | | | | | | 4 |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | | X | | | X | X | | | | X | | | | | | | | | | | X | | 7 |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Basophilic Focus | | | X | | | | | | | | | | | X | X | | | X | | | | | | | | | | 12 |
| Clear Cell Focus | | | | | | | | X | | | X | | | | | | | | | X | | | | | X | | | 14 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Eosinophilic Focus | | | | | | | X | | | | | | | X | X | X | | X | | | X | | | | | | | 16 |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3 1.3 |
| Pigment | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Bile Duct, Cyst | | | X | | | | X | | | | | | | | | | | | | | X | | | | | | | 8 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|-----------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| HARLAN SPRAGUE DAWLEY RATS FEMALE | | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | | |
| 3000 ppm Female | | 3 | 0 | 0 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 1 | 3 | 3 | 4 | 0 | 3 | 3 | 3 | | |
| ANIMAL ID | | 1 | 9 | 3 | 0 | 0 | 0 | 0 | 8 | 2 | 2 | 5 | 2 | 2 | 2 | 2 | 1 | 5 | 2 | 1 | 1 | 1 | 0 | 7 | 2 | 2 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 6 | 7 | 8 | 9 | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|
| Hepatocyte, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | 2 | 2.0 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Arteriole, Inflammation, Chronic Active | | | | 3 | | | | | | | | | | | | | | | 1 | | | | | | | | | 3 | 1.7 |
| Artery, Inflammation, Chronic Active | | | | 3 | | | | | | | | | | | | | | | 2 | | | | | | | | | 3 | 2.3 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 1.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 |
| Hyperplasia, Focal | 2 | 1 | 1 | | | | | | | | | | | 2 | | 2 | | | | | | | | | | | | 12 | 1.5 |
| Hypertrophy, Focal | 1 | | | 1 | 1 | 1 | 2 | | 2 | | 2 | 3 | 1 | 2 | 1 | | | 2 | 3 | | 3 | | 1 | 1 | 1 | | | 39 | 1.6 |
| Necrosis | | | 1 | | | | | | 1 | | | | | | | | | | | | | | | | | | | 2 | 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3000 ppm Female | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0731 | 0739 | 0763 | 0773 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | |
| ANIMAL ID | 00356 | 00357 | 00358 | 00359 | 00360 | 00361 | 00362 | 00363 | 00364 | 00365 | 00366 | 00367 | 00368 | 00369 | 00370 | 00371 | 00372 | 00373 | 00374 | 00375 | 00376 | 00377 | 00378 | 00379 | 00380 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Vacuolization Cytoplasmic | 2 | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.3 |
| Adrenal Medulla Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | 2 1 3 2 | | | | | | | | | | | | | | | | | | | | | | | | 50 | 11 1.7 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | 43 | 5 1.2 |
| Pituitary Gland Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Intermedia, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | 50 | 9 2.1 |
| Thyroid Gland C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | 2 3 | | | | | | | | | | | | | | | | | | | | | | | | 50 | 9 1.9 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Ovary Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | X X | | | | | | | | | | | | | | | | | | | | | | | | 50 | 7 |
| Uterus Adenomyosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Dilation | 2 | | | | | | | | | | | | | | | | | | | | | | | | 50 | 3 2.0 |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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I .. Insufficient tissue
M .. Missing tissue
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CAS Number: 131-57-7

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Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3000 ppm Female | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0731 | 0739 | 0763 | 0773 | 0777 | 0777 | 0777 | 0784 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | |
| ANIMAL ID | 00356 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 | 00335 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|-----|
| Endometrium, Atypical Hyperplasia | 2 | | | 1 | | | | 1 | | | 1 | | | | | | | | | 3 | | | 1 | 1 | 19 | 1.4 | | |
| Endometrium, Hyperplasia, Cystic | 2 | 1 | | 2 | | | | 2 | | 2 | 2 | | | | 1 | | | 2 | | 1 | 3 | | | 1 | 2 | 28 | 1.9 | |
| Endometrium, Metaplasia, Squamous | 1 | | | 2 | 4 | | | 2 | | 1 | 2 | | | | | | | 1 | | 3 | 2 | | | 1 | 2 | 25 | 2.0 | |
| Vagina Mucification | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 7 | 1.9 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|----|-----|
| Bone Marrow Hypercellularity | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 25 | 3.5 |
| Lymph Node Mediastinal, Congestion | | | | | | | | + | | | | | | | | | | + | | | | | | | | 2 | 2 | 2.5 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Spleen Extramedullary Hematopoiesis Pigment | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 30 | 2.3 |
| | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | | 1 | 1 | 1 | | | 1 | | | 1 | 1 | 37 | 1.3 | | |
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | 47 | 12 | 2.8 |
| | | 2 | 4 | | | | | 3 | | | 1 | | | | | 3 | | | 3 | | | | 3 | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Mammary Gland Galactocele | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 | 3.7 |
| | | 3 | | | | | | | | | 4 | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | * TOTALS |
|-------------|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 7 | 0 | 0 |
| 3 | 0 | 0 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 1 | 3 | 3 | 4 | 0 | 3 | 3 | 0 | 0 |
| 1 | 9 | 3 | 0 | 0 | 0 | 0 | 8 | 2 | 2 | 5 | 2 | 2 | 2 | 2 | 1 | 5 | 2 | 1 | 1 | 1 | 0 | 7 | 2 | 2 | 3 | 3 |

3000 ppm Female

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Mineral | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Nephropathy, Chronic Progressive | 1 | 1 | 3 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 46 | 1.3 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------------|
| DAY ON TEST
HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm Female | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) |
| | 4 | 6 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 6 | 5 | 4 | 6 | 5 | 7 | 7 | 7 | |
| | 9 | 9 | 9 | 3 | 7 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 5 | 3 | 3 | 4 | 4 | 1 | 5 | 7 | 0 | 3 | 3 | |
| 8 | 4 | 4 | 0 | 9 | 4 | 2 | 1 | 1 | 1 | 0 | 0 | 4 | 9 | 1 | 1 | 1 | 3 | 1 | 9 | 7 | 9 | 2 | 2 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Artery, Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | + |
| Intestine Large, Rectum
Parasite Metazoan
Arteriole, Necrosis, Fibrinoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | X | | | | X | X | | | | | | | | | | | | X | | | | | 3 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | 1 | | 2 | | | | | | | | | | | | |
| Basophilic Focus | | | X | | X | | | X | | | | | | | | | | | | | | X | |
| Clear Cell Focus | | | | | | | | X | X | | | | X | | | | | | | | | | |
| Eosinophilic Focus | | | | | X | | X | | | | | | | | | | | | | | | | |
| Extramedullary Hematopoiesis | | | | | 1 | | | | | | | | | 1 | | | | | 1 | | | | |
| Bile Duct, Cyst | | | | | | | | | | | | | X | | | X | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | 4 | | | | | | | | |
| Hepatocyte, Hypertrophy | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | 1 | 2 | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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FEMALE
10000 ppm Female | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|-----------------------|------------------|
| | 0
4
9
8 | 0
6
9
4 | 0
6
9
4 | 0
7
3
0 | 0
6
7
9 | 0
6
9
4 | 0
7
3
2 | 0
7
3
1 | 0
7
3
1 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
4
7
4 | 0
6
5
9 | 0
7
3
1 | 0
7
3
1 | 0
6
4
1 | 0
5
4
3 | 0
4
1
1 | 0
6
5
9 | | | 0
7
0
7 | 0
7
3
2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
3
8
1 | |

Hepatocyte, Vacuolization Cytoplasmic

2

Mesentery

Pancreas

Acinus, Hyperplasia

Artery, Inflammation, Chronic Active

2

Salivary Glands

Stomach, Forestomach

Cyst, Squamous

Epithelium, Hyperplasia

Stomach, Glandular

CARDIOVASCULAR SYSTEM

Blood Vessel

Heart

Cardiomyopathy

Epicardium, Inflammation, Suppurative

1

1

ENDOCRINE SYSTEM

Adrenal Cortex

Hyperplasia, Focal

Hypertrophy, Focal

Thrombus

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | 3 | 2 | | | | | | | | | | | | 1 | 2 | 1 | 2 | | | | | |
| | 1 | | 1 | 2 | 3 | | | | | 2 | | 2 | | | | 2 | 1 | | | 1 | | 1 | 2 | 2 | 3 |
| | | | | | | | | | | | | | 1 | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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|------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|
| | 0498 | 0694 | 0694 | 0730 | 0679 | 0663 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0474 | 0667 | 0773 | 0773 | 0665 | 0446 | 0665 | 0577 | 0770 | 0773 | | |
| 10000 ppm Female | 0038 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland Hyperplasia | M | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | |
| Pituitary Gland Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland Pars Intermedia, Hyperplasia | | 2 | | | | | 3 | | 2 | 1 | | | | 1 | | | | | | 2 | | 2 | 2 | 2 | |
| Thyroid Gland C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | 2 | | | | 1 | 3 | | | | | | | 4 | | | | | | | | | 2 | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + |
| Ovary Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary Bursa, Cyst | | | X | X | X | | | | X | X | X | | | | | | | | | | | | | | |
| Ovary Periovarian Tissue, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | X | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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|-------------|-----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|-------------------|----|----|----|
| | 04 | 06 | 06 | 07 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 04 | 06 | 07 | 07 | 06 | 05 | | | 04 | 06 | 05 |
| 09 | 9 | 9 | 9 | 3 | 7 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 5 | 3 | 3 | 4 | 4 | 1 | 5 | 7 | 0 | 3 | 3 |
| 08 | 8 | 4 | 4 | 0 | 9 | 4 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 4 | 9 | 1 | 1 | 1 | 3 | 1 | 9 | 7 | 9 | 2 | 2 |
| 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 03 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 08 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 01 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adenomyosis | 4 | | | 2 | 3 | | | | | | | 2 | | | | | | | | | | | | | |
| Dilation | | | | | | | | | | | | | | 3 | 2 | | | | | | 4 | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | X | | | | |
| Cervix, Stromal Hyperplasia | | | | | | | | | | | | | | | | 4 | | | | | | | | | |
| Endometrium, Atypical Hyperplasia | 2 | 2 | | 3 | | | | | 3 | | | | | | | | | | | 2 | | | | | |
| Endometrium, Hyperplasia, Cystic | 2 | 2 | 2 | 2 | 1 | 1 | 2 | | 2 | | | | | | 3 | 2 | | | | 1 | | | 1 | | 2 |
| Endometrium, Metaplasia, Squamous | 1 | 2 | 1 | 1 | | 1 | 2 | | 2 | | | | 2 | | | 4 | 4 | | | 4 | 1 | 2 | | | 2 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mucification | | | | | | | | | 2 | 2 | | 2 | | | | | | | | 2 | | | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hypercellularity | 2 | 4 | 4 | 3 | 4 | 3 | 4 | | 2 | | 3 | | 3 | 4 | 4 | 4 | | | | 4 | 1 | | 4 | 4 | 2 | 4 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Extramedullary Hematopoiesis | 2 | 4 | 3 | | 4 | 1 | | | | | | | | 4 | 4 | | | | | 4 | 1 | | 3 | 3 | 1 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigment | 2 | | 1 | 2 | | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | | | 1 | 2 | 4 | | | 1 | 3 | | 1 | 1 | |
| White Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | 3 | 4 | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
X .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate
I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm Female | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) |
| | | 4 | 6 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 6 | 5 | 4 | 6 | 5 | 7 | 7 | 7 | 7 | |
| | ANIMAL ID | 9 | 9 | 9 | 3 | 7 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 5 | 3 | 3 | 4 | 4 | 1 | 5 | 7 | 0 | 3 | 3 | 2 | |
| | 8 | 4 | 4 | 0 | 9 | 4 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | |

Atrophy
Inflammation, Suppurative

2 3 3 2 1 2 4 2 2 3 2 3
1

INTEGUMENTARY SYSTEM

Mammary Gland
Galactoceles
Hyperplasia

+
1

Skin

+ +

MUSCULOSKELETAL SYSTEM

Bone

+ +

NERVOUS SYSTEM

Brain
Hemorrhage
Cerebrum, Gliosis
Cerebrum, Necrosis

+
4

RESPIRATORY SYSTEM

Lung
Hemorrhage
Alveolus, Infiltration Cellular, Histiocyte
Nose
Olfactory Epithelium, Accumulation, Hyaline Droplet

+
1 2 3 2 2 2 1 1 1 2 1 1 1 2 2 3 2 2 1 2 2 1 3
+
2 2 1 3 2 2 1 2 2 1 1 1 2 1 2 2 2 2 1 2 1 2 1

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
X .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate
I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/22/2017

Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE
10000 ppm Female | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 4 | 6 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| 9 | 9 | 9 | 3 | 7 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| 8 | 4 | 4 | 0 | 9 | 4 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

Trachea +

SPECIAL SENSES SYSTEM

Eye +
Lens, Degeneration 3
Retina, Degeneration 3

Harderian Gland +

Zymbal's Gland

URINARY SYSTEM

Kidney +
Nephropathy, Chronic Progressive 1 1 1 2 2 2 1 1 1 1 1 2 1 1 1 1 2 1 1 1 2 1
Papilla, Degeneration 2
Pelvis, Inflammation, Suppurative

Urinary Bladder +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
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First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm Female | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0599 | 0581 | 0667 | 0773 | 0773 | 0578 | 0664 | 0005 | 0771 | 0779 | 0772 | 0773 | 0663 | 0772 | 0773 | 0773 | 0669 | 0773 | 0773 | 0664 | 0773 | 0773 | 0773 | 0373 | 0773 | |
| ANIMAL ID | 00410 | 00441 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 2 | 2 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 2 | 3 | 3 | 5 | 7 | 9 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Large, Colon
Artery, Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 3.0 |
| Intestine Large, Rectum
Parasite Metazoan
Arteriole, Necrosis, Fibrinoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 10 | 3.0 |
| X | | | | X | X | | | | | | | | | | | | | X | X | | X | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | 7 | | |
| Eosinophilic Focus | | | | X | X | | | | X | | | X | X | | X | | | | | X | X | X | | | | 12 | | |
| Extramedullary Hematopoiesis | | 1 | 1 | | | 1 | | | | | | | | | | | | | | | | | | 2 | | 7 | 1.1 | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Hepatocyte, Hypertrophy | | | | | | | 3 | | | | | | | | | | | | | | | | | 3 | | 3 | 2.7 | |
| Hepatocyte, Necrosis | | | | | | | | | | | | 1 | | | | | | | | | | | 1 | | | 4 | 1.3 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10260 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

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Time Report Requested: 09:11:25

First Dose M/F: 11/08/10 / 11/09/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm Female | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|-----|-----|-----|
| | 0599 | 0581 | 0667 | 0773 | 0773 | 0578 | 0664 | 0005 | 0771 | 0779 | 0772 | 0772 | 0663 | 0772 | 0773 | 0773 | 0669 | 0773 | 0773 | 0664 | | 0773 | 0773 | 0773 | 0373 | 0773 | | | |
| ANIMAL ID | 0041 | 0041 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.3 | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Cyst, Squamous Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Heart | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Epicardium, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | 13 | 1.8 |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | 27 | 1.7 |
| Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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FEMALE
10000 ppm Female | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0599 | 0581 | 0667 | 0773 | 0773 | 0558 | 0660 | 0700 | 0773 | 0773 | 0773 | 0676 | 0773 | 0773 | 0676 | 0773 | 0773 | 0676 | 0773 | 0773 | 0373 | 0773 | 0373 | 0773 | |
| ANIMAL ID | 00410 | 00441 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Vacuolization Cytoplasmic | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Adrenal Medulla Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 5 | 1.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Parathyroid Gland Hyperplasia | + | + | + | + | M | + | + | M | + | + | + | + | + | M | + | + | + | + | + | M | + | + | + | + | 42 | 3 | 1.7 |
| Pituitary Gland Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 15 | 2.1 |
| Pituitary Gland Pars Intermedia, Hyperplasia | 3 | | | | | | 3 | | 4 | | 2 | | | 1 | | 2 | | | | | | | | | 1 | 4.0 | |
| Thyroid Gland C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 9 | 2.4 |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 48 | | |
| Ovary Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 9 | |
| Ovary Bursa, Cyst | X | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Ovary Periovarian Tissue, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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| HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm Female | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|--|
| | 0599 | 0681 | 0670 | 0730 | 0730 | 0578 | 0644 | 0605 | 0701 | 0709 | 0702 | 0702 | 0633 | 0702 | 0702 | 0691 | 0703 | 0703 | 0604 | 0701 | 0701 | 0614 | | 0701 | 0701 | 0702 | 0379 | 0703 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 0 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 5 | 7 | 9 | 0 | 0 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|--|--|---|---|--|--|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|-----|
| Atrophy | 3 | 2 | 3 | | | 2 | 3 | | | 3 | 3 | | | | | | | | | | | | | | | | | 22 | 2.6 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Mammary Gland | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Galactocele | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Cerebrum, Gliosis | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Cerebrum, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 4.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.9 |
| | 2 | 1 | 2 | 2 | 2 | | | | 2 | 2 | 3 | | | 2 | 3 | 2 | 1 | 2 | 3 | | 3 | 2 | | | | | | | 40 | 1.9 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 1 | 1 | 1 | 1 | 3 | 1 | 1 | | 1 | 2 | 3 | | | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | | 47 | 1.7 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

