

Experiment Number: 20536 - 02
Test Type: 39-WEEK
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Abrasive blasting agents (specular hematite)
CAS Number: HEMATITESPEC

Date Report Requested: 09/13/2012
Time Report Requested: 10:34:30
First Dose M/F: 07/27/09 / NA
Lab: BNW

F1_Rev.1_39 Wk Core_HSD

NTP Study Number: C20536
Lock Date: 07/19/2010
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25021 TSAC 25019 MSAC
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Male
TDMSE Version: 2.6.0.0_007
PWG Approval Date: 02/08/2012

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DAY ON TEST	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	
HARLAN SPRAGUE DAWLEY RATS MALE	7	7	7	7	7	7	5	7	7	
	1	1	1	1	1	1	3	1	1	
Control	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	1	2	2	3	3	3	6	6	
	6	0	3	7	0	2	4	0	2	
* TOTALS										

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial	+	I	+	M	+	I	M	+	+	5		
Pigmentation, Hemosiderin			2		2				2		3	2.0
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	+	9		
Pigmentation, Hemosiderin			3								1	3.0

INTEGUMENTARY SYSTEM

NONE

* .. 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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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DAY ON TEST		0	0	0	0	0	0	0	0	0	
HARLAN SPRAGUE DAWLEY RATS MALE		2	2	2	2	2	2	2	2	2	
		7	7	7	7	7	7	5	7	7	
Control		1	1	1	1	1	1	3	1	1	
		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	1	2	2	3	3	3	6	6	
		6	0	3	7	0	2	4	0	2	
* TOTALS											

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	9	
Glands, Inflammation, Suppurative			1								1 1.0
Lung	+	+	+	+	+	+	+	+	+	9	
Infiltration Cellular							3				1 3.0
Infiltration Cellular, Histiocyte	1	1		1	1						4 1.0
Necrosis							1				1 1.0
Alveolar Epithelium, Hyperplasia					1		2				2 1.5
Bronchiole, Hypertrophy							2				1 2.0
Interstitium, Fibrosis							1				1 1.0
Nose	+	+	+	+	+	+	+	+	+	9	
Accumulation, Hyaline Droplet							2				1 2.0
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	4	2	2	2	3		1	1		8 2.1
Trachea	+	+	+	+	+	+	+	+	+	9	

SPECIAL SENSES SYSTEM

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HARLAN SPRAGUE DAWLEY RATS MALE Control	DAY ON TEST	0 2 7 1	0 2 7 1	0 2 7 1	0 2 7 1	0 2 7 1	0 2 7 1	0 2 5 3	0 2 7 1	0 2 7 1	
	ANIMAL ID	0 0 0 0 6	0 0 0 1 0	0 0 0 2 3	0 0 0 2 7	0 0 0 3 0	0 0 0 3 2	0 0 0 3 4	0 0 0 3 0	0 0 0 6 0	0 0 0 6 2

NONE

URINARY SYSTEM

NONE

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	DAY ON TEST	0	0	0	0	0	0	0	0
		2	2	2	2	2	2	2	2
HARLAN SPRAGUE DAWLEY RATS		7	7	7	7	7	7	7	7
MALE		1	1	1	1	1	1	1	1
15 mg/m3	ANIMAL ID	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0
		2	2	2	2	2	2	2	2
		0	1	2	2	3	3	6	6
		6	0	3	7	0	2	0	2
									* TOTALS

ALIMENTARY SYSTEM

Liver		+								1
Degeneration		1								1 1.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node											1
Pancreatic, Congestion											1 1.0
Renal, Congestion											1 2.0
Lymph Node, Bronchial		+	+	+	+	+	+	+	M		7
Foreign Body		X		X	X	X	X				5
Hyperplasia				1							1 1.0
Infiltration Cellular, Histiocyte		2		3	2	2	3				5 2.4

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	2	2	2	2	2	2	2	2
7	7	7	7	7	7	7	7	7
1	1	1	1	1	1	1	1	1
ANIMAL ID	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
0	1	2	2	3	3	6	6	6
6	0	3	7	0	2	0	2	2

*** TOTALS**

Pigmentation, Hemosiderin

3

1 3.0

Lymph Node, Mediastinal

+ + + + + + + +

8

Foreign Body

X X X X X X X X

7

Hyperplasia

2 1 2

3 1.7

Infiltration Cellular, Histiocyte

3 2 2 3 3 2 3

7 2.6

Pigmentation, Hemosiderin

3

1 3.0

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx

+ + + + + + + +

8

Foreign Body

X X X X X X X X

8

Epiglottis, Metaplasia, Squamous

1 1 1 1 1

5 1.0

Glands, Concretion

X

1

Lung

+ + + + + + + +

8

Foreign Body

X X X X X X X X

8

Infiltration Cellular, Histiocyte

1 1 2 1 2 1 1 2

8 1.4

Inflammation, Chronic Active

1 1 1

3 1.0

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DAY ON TEST	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	
HARLAN SPRAGUE DAWLEY RATS	7	7	7	7	7	7	7	7	
MALE	1	1	1	1	1	1	1	1	
15 mg/m3									
ANIMAL ID	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	
	0	1	2	2	3	3	6	6	
	6	0	3	7	0	2	0	2	
	* TOTALS								
Alveolar Epithelium, Hyperplasia	1	1	1	1	1	1	1	1	8 1.0
Interstitialium, Fibrosis	1		1						2 1.0
Nose	+	+	+	+	+	+	+	+	8
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	3	3	2	2	3	3	3	8 2.8
Trachea	+	+	+	+	+	+	I	+	7

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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DAY ON TEST	0	0	0	0	0	0	0	0
	HARLAN SPRAGUE DAWLEY RATS MALE	2	2	2	2	2	2	2
30 mg/m3	7	7	7	7	7	7	7	7
ANIMAL ID	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4
	0	1	2	2	3	3	6	6
	6	0	3	7	0	2	0	2
								* TOTALS

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node									2		
Pancreatic, Congestion									2	2	2.0
Lymph Node, Bronchial	+	+	+	+	+	+	+	+	8		
Foreign Body		X	X	X	X	X	X	X		7	
Hyperplasia		1				2	1			3	1.3
Infiltration Cellular, Histiocyte		3	3	2	3	3	3	2		7	2.7
Lymph Node, Mediastinal	+	+	+	+	+	M	+	+	7		

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DAY ON TEST	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	
HARLAN SPRAGUE DAWLEY RATS MALE	7	7	7	7	7	7	7	7	
	1	1	1	1	1	1	1	1	
30 mg/m3	ANIMAL ID	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0
		4	4	4	4	4	4	4	
		0	1	2	2	3	3	6	
		6	0	3	7	0	2	0	
									* TOTALS
Foreign Body	X		X	X	X		X	X	6
Hyperplasia	2		2	1	2				4 1.8
Infiltration Cellular, Histiocyte	2		3	3	3		4	3	6 3.0

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	8	
Foreign Body	X	X	X	X	X	X	X	X	8	
Epiglottis, Metaplasia, Squamous Glands, Inflammation, Chronic Active		1	1	1	1	1	1	1	7 1.0	
					1				1 1.0	
Lung	+	+	+	+	+	+	+	+	8	
Foreign Body	X	X	X	X	X	X	X	X	8	
Infiltration Cellular, Histiocyte	2	2	2	2	2	2	2	2	8 2.0	
Inflammation, Chronic Active	1	1							2 1.0	
Alveolar Epithelium, Hyperplasia	1	1	1	1	1	1	1	1	8 1.0	
Interstitialium, Fibrosis	1	1	1	1	1	1	1	1	8 1.0	
Nose	+	+	+	+	+	+	+	+	8	

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DAY ON TEST	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	
HARLAN SPRAGUE DAWLEY RATS	7	7	7	7	7	7	7	7	
MALE	1	1	1	1	1	1	1	1	
30 mg/m3									
ANIMAL ID	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	
	0	1	2	2	3	3	6	6	
	6	0	3	7	0	2	0	2	
	* TOTALS								
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	2	3	4	3	2	4	3	8 3.0
Respiratory Epithelium, Accumulation, Hyaline Droplet	1		1					1	3 1.0
Trachea	+	+	+	+	+	+	+	+	8

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney										1	
Nephropathy			+								1 3.0

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DAY ON TEST	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2
7	7	7	7	7	5	7	7	7	7
1	1	1	1	1	3	1	1	1	1
<hr/>									
ANIMAL ID	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
0	1	2	2	3	3	5	6	6	6
6	0	3	7	0	2	8	0	6	2
* TOTALS									

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node Congestion										1		
												1 1.0
Lymph Node, Bronchial Foreign Body										8		
Hyperplasia												7
Infiltration Cellular, Histiocyte												4 1.3
												7 3.0
Lymph Node, Mediastinal										9		

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DAY ON TEST	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	
HARLAN SPRAGUE DAWLEY RATS MALE	7	7	7	7	5	7	7	7	7	
	1	1	1	1	3	1	1	1	1	
60 mg/m3	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	
ANIMAL ID	6	6	6	6	6	6	6	6	6	
	0	1	2	2	3	3	5	6	6	
	6	0	3	7	0	2	8	0	2	
										* TOTALS

Foreign Body	X	X	X	X	X	X	X	X	X	9
Hyperplasia	3	3	3			3	3	3	3	7 3.0
Infiltration Cellular, Histiocyte	3	3	3	3	3	3	3	3	3	9 3.0
Pigmentation, Hemosiderin		2								1 2.0

INTEGUMENTARY SYSTEM

Skin											1
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MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	9
Foreign Body	X	X	X	X	X	X	X	X	X	9
Ulcer						1				1 1.0
Epiglottis, Metaplasia, Squamous	1	1	1	1	1	1	1			7 1.0
Lung	+	+	+	+	+	+	+	+	+	9
Atelectasis, Chronic						1				1 1.0
Foreign Body	X	X	X	X	X	X	X	X	X	9
Infiltration Cellular, Histiocyte	3	3	3	3		3	3	3	3	8 3.0
Inflammation, Chronic Active		1	1	1	4	1	1		1	7 1.4
Alveolar Epithelium, Hyperplasia	2	2	2	2	2	2	2	2	2	9 2.0

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HARLAN SPRAGUE DAWLEY RATS MALE 60 mg/m3	DAY ON TEST									ANIMAL ID			
	0 2 7 1	0 2 7 1	0 2 7 1	0 2 7 1	0 2 5 3	0 2 7 1	0 2 7 1	0 2 7 1	0 2 7 1				
	0	0	0	0	0	0	0	0	0	0 0 6 0 6			
	2	2	2	2	2	2	2	2	2				
Interstitial, Fibrosis	2	2	2	2	2	2	2	2	2				9 2.0
Nose	+	+	+	+	+	+	+	+	+				9
Accumulation, Hyaline Droplet					3								1 3.0
Olfactory Epithelium, Accumulation, Hyaline Droplet	4	4	3	3		4	3	3	4				8 3.5
Respiratory Epithelium, Accumulation, Hyaline Droplet	1			1					1				3 1.0
Trachea	+	+	+	+	+	+	+	+	+				9

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

*** END OF REPORT ***

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