

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: 10:28:08
First Dose M/F: 07/27/09 / NA
Lab: BNW

F1_Rev.1_26 Wk. SSAC

NTP Study Number: C20536
Lock Date: 07/19/2010
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25017 SSAC
Removal Date Range: 22-Jan-2010 - 22-Jan-2010
Treatment Groups: Include ALL
Study Gender: Male
TDMSE Version: 2.6.0.0_007
PWG Approval Date: 02/08/2012

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HARLAN SPRAGUE DAWLEY RATS MALE Control	DAY ON TEST	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	
		8	8	8	8	8	8	8	8	
		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	2	3	4	4	4	5		
		7	9	9	3	4	7	1		
* TOTALS										

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial	+	+	+	+	+	+	I	+	7
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	8
Pigmentation, Hemosiderin	2					1			2 1.5

INTEGUMENTARY SYSTEM

NONE

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

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DAY ON TEST	0	0	0	0	0	0	0	0	HARLAN SPRAGUE DAWLEY RATS MALE
	1	1	1	1	1	1	1	1	
ANIMAL ID	8	8	8	8	8	8	8	8	Control
	0	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	3	4	4	4	5	5	
	7	9	9	3	4	7	1	5	
* TOTALS									

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	8	
Glands, Concretion				X		X				2
Lung	+	+	+	+	+	+	+	+	8	
Infiltration Cellular, Histiocyte	1			1						2 1.0
Nose	+	+	+	+	+	+	+	+	8	
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	1	1	1	1	1	1	1		8 1.3
Respiratory Epithelium, Accumulation, Hyaline Droplet	1							1		2 1.0
Trachea	+	+	+	+	+	+	+	+	8	
Inflammation, Chronic Active								1		1 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

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HARLAN SPRAGUE DAWLEY RATS MALE Control	DAY ON TEST	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	
		8	8	8	8	8	8	8	8	
		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	2	3	4	4	4	5		5
		7	9	9	3	4	7	1	5	* TOTALS

NONE

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HARLAN SPRAGUE DAWLEY RATS MALE 15 mg/m3	DAY ON TEST	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	
		8	8	8	8	8	8	8	8	
		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	
		2	2	2	2	2	2	2	2	
		0	2	3	4	4	4	5	5	
		7	9	9	3	4	7	1	5	
* TOTALS										

Infiltration Cellular, Histiocyte	2	2	3	3	2	5 2.4
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INTEGUMENTARY SYSTEM

Skin	+	1
Inflammation, Chronic Active	4	1 4.0

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	8
Foreign Body	X	X	X	X	X	X	X	X	8
Inflammation, Chronic Active	3								1 3.0
Ulcer	2								1 2.0
Epiglottis, Metaplasia, Squamous Epithelium, Hyperplasia		1		1	1			1	5 1.0
	2								1 2.0
Lung	+	+	+	+	+	+	+	+	8
Foreign Body	X	X	X	X	X	X	X	X	8
Infiltration Cellular, Histiocyte	1	1	1	1	1	1	1	1	8 1.0
Inflammation, Chronic Active		1	1						2 1.0
Metaplasia, Osseous		1							1 1.0
Alveolar Epithelium, Hyperplasia	1	1	1	1	1	1	1	1	8 1.0

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DAY ON TEST	0	0	0	0	0	0	0	0	ANIMAL ID				
	1	1	1	1	1	1	1	1					
HARLAN SPRAGUE DAWLEY RATS	8	8	8	8	8	8	8	8					
MALE	0	0	0	0	0	0	0	0					
15 mg/m3	0	0	0	0	0	0	0	0					
	2	2	2	2	2	2	2	2					
	0	2	3	4	4	4	5	5					
	7	9	9	3	4	7	1	5					
	* TOTALS												
Nose	+	+	+	+	+	+	+	+				8	
Olfactory Epithelium, Accumulation, Hyaline Droplet	1	2	2	1	2	2	3	1					8 1.8
Respiratory Epithelium, Accumulation, Hyaline Droplet		1	1										2 1.0
Trachea	+	+	+	+	+	+	+	+				8	
Foreign Body	X												1
Inflammation, Chronic Active Glands, Inflammation	1			1									1 1.0
													1 1.0
SPECIAL SENSES SYSTEM													
Lacrimal Gland	+											1	
Inflammation, Chronic Active	2												1 2.0
URINARY SYSTEM													
NONE													

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DAY ON TEST	0	0	0	0	0	0	0	0	HARLAN SPRAGUE DAWLEY RATS MALE 30 mg/m3	ANIMAL ID	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1			0	0	0	0	0	0	0	0	
	8	8	8	8	8	8	8	8			4	4	4	4	4	4	4	4	
	0	0	0	0	0	0	0	0			0	2	3	4	4	4	5	5	
											7	9	9	3	4	7	1	5	
																		* TOTALS	

ALIMENTARY SYSTEM

Intestine Small, Ileum

+

1

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial	+	+	+	+	+	I	+	+	7	
Foreign Body	X	X	X	X	X		X	X		7
Hyperplasia				1						1 1.0
Infiltration Cellular, Histiocyte	2	3	3	3	3		2	3		7 2.7
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	8	
Foreign Body	X	X	X	X	X	X	X	X		7
Hyperplasia		1		1		1				3 1.0
Infiltration Cellular, Histiocyte	2	3	1	3	3	3	3			7 2.6

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DAY ON TEST	0	0	0	0	0	0	0	0	ANIMAL ID			
	1	1	1	1	1	1	1	1				
HARLAN SPRAGUE DAWLEY RATS MALE	8	8	8	8	8	8	8	8				
30 mg/m3	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	2	3	4	4	4	5	5				
	7	9	9	3	4	7	1	5				
* TOTALS												
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 Glands, Concretion	1	1		1		1	1				5 1.0
Glands, Inflammation, Suppurative				X		X					2
				1							1 1.0
Lung	+	+	+	+	+	+	+	+			8
Foreign Body	X	X	X	X	X	X	X	X			8
Infiltration Cellular, Histiocyte	2	1	2	2	2	1	1	1			8 1.5
Alveolar Epithelium, Hyperplasia	1	1	1	1	1	1	1	1			8 1.0
Nose	+	+	+	+	+	+	+	+			8
Inflammation, Chronic Active			1								1 1.0
Olfactory Epithelium, Accumulation, Hyaline Droplet	1	2	1	2	1	1	1	1			8 1.3

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DAY ON TEST	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1		
HARLAN SPRAGUE DAWLEY RATS	8	8	8	8	8	8	8	8		
MALE	0	0	0	0	0	0	0	0		
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	2	3	4	4	4	5	5		
	7	9	9	3	4	7	1	5		
	* TOTALS									
Olfactory Epithelium, Metaplasia, Respiratory	2									1 2.0
Respiratory Epithelium, Accumulation, Hyaline Droplet				1		1		1		3 1.0
Trachea	+	+	+	+	+	+	+	+	8	
Foreign Body	X			X		X				3
Inflammation, Chronic Active	1			1		1				3 1.0
Metaplasia, Osseous	1									1 1.0

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
	1	1	1	1	1	1	1	1	
ANIMAL ID	8	8	8	8	8	8	8	8	60 mg/m3
	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	* TOTALS
	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	
	0	2	3	4	4	4	5	5	
	7	9	9	3	4	7	1	5	

ALIMENTARY SYSTEM

Intestine Small, Ileum

+

1

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial	+	+	+	M	+	+	+	+	7	
Foreign Body	X	X				X	X	X		5
Hyperplasia	3									1 3.0
Infiltration Cellular, Histiocyte	3	2				3	3	3		5 2.8
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	8	
Foreign Body	X	X	X	X	X	X		X		7
Hyperplasia	3		3	3	2	2		2		6 2.5

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DAY ON TEST	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1
8	8	8	8	8	8	8	8	8	
0	0	0	0	0	0	0	0	0	
HARLAN SPRAGUE DAWLEY RATS MALE									
60 mg/m3									
ANIMAL ID	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	
0	2	3	4	4	4	4	5	5	
7	9	9	3	4	4	7	1	5	
									* TOTALS
Infiltration Cellular, Histiocyte	3	2	3	3	3	3		3	7 2.9

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	1	1		7 1.0
Lung	+	+	+	+	+	+	+	+	8	
Foreign Body	X	X	X	X	X	X	X	X		8
Infiltration Cellular, Histiocyte	3	3	2	2	3	3	2	3		8 2.6
Inflammation, Chronic Active	1	1	1					1		4 1.0
Metaplasia, Osseous						1				1 1.0
Alveolar Epithelium, Hyperplasia	2	2	2	2	2	2	2	2		8 2.0
Interstitialium, Fibrosis					1		2	1		3 1.3
Nose	+	+	+	+	+	+	+	+	8	
Goblet Cell, Hyperplasia		1								1 1.0

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DAY ON TEST	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	
HARLAN SPRAGUE DAWLEY RATS	8	8	8	8	8	8	8	8	
MALE	0	0	0	0	0	0	0	0	
60 mg/m3									
ANIMAL ID	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	
	0	2	3	4	4	4	5	5	
	7	9	9	3	4	7	1	5	
									* TOTALS
Olfactory Epithelium, Accumulation, Hyaline Droplet	1	1	2	2	2	3	3	1	8 1.9
Respiratory Epithelium, Accumulation, Hyaline Droplet	1		1		1	1	1		5 1.0
Trachea	+	+	+	+	+	+	+	+	8
Foreign Body				X					1
Inflammation, Chronic Active			1						1 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

*** END OF REPORT ***

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