

Experiment Number: 20213 - 02
Test Type: 39-WEEK
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Abrasive blasting agents (blasting sand)
CAS Number: BLASTINGSAND

Date Report Requested: 03/20/2012
Time Report Requested: 13:29:21
First Dose M/F: 04/20/09 / NA
Lab: BNW

F1_26 Wk. SSAC

NTP Study Number: C20213
Lock Date: 08/17/2010
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25017 SSAC
Removal Date Range: 16-Oct-2009 - 16-Oct-2009
Treatment Groups: Include ALL
Study Gender: Male
TDMSE Version: 2.6.0.0_007
PWG Approval Date: NONE

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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	
		2	2	3	3	3	4	4	5	
		5	6	0	2	3	8	9	1	
* TOTALS										

ALIMENTARY SYSTEM

Intestine Small, Ileum	M	M	M	M	M	M	M	M	0
Intestine Small, Jejunum	M	M	M	M	M	M	M	M	0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial	+	+	+	+	+	+	+	M	7
Lymph Node, Mediastinal Pigmentation	+	+	+	+	+	+	+	+	8
			2			2			2 2.0

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
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 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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HARLAN SPRAGUE DAWLEY RATS MALE Control	DAY ON TEST	0	0	0	0	0	0	0	0	
	ANIMAL ID	1	1	1	1	1	1	1	1	
		8	8	8	8	8	8	8	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	
		2	2	3	3	3	4	4	5	
		5	6	0	2	3	8	9	1	
* TOTALS										

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	8	
Lung	+	+	+	+	+	+	+	+	8	
Infiltration Cellular, Histiocyte					1	1	1	1		4 1.0
Inflammation, Chronic Active		1					1			2 1.0
Nose	+	+	+	+	+	+	+	+	8	
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	1	2	2	2	2	3	1		8 1.9
Respiratory Epithelium, Accumulation, Hyaline Droplet	1	1	1		1	1	1			6 1.0
Respiratory Epithelium, Inflammation				1						1 1.0
Trachea	+	+	+	+	+	+	+	+	8	

SPECIAL SENSES SYSTEM

NONE

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		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		
		2	2	3	3	3	4	4	5	
		5	6	0	2	3	8	9	1	
* TOTALS										

URINARY SYSTEM

NONE

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 Lab: BNW

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		
	ANIMAL ID	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	3	3	3	4	4		
		5	6	0	2	3	8	9	1	
* TOTALS										

ALIMENTARY SYSTEM

Intestine Small, Ileum	M	M	M	M	M	M	M	M	0
Intestine Small, Jejunum	M	M	M	M	M	M	M	M	0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial	+	+	+	+	+	+	+	+	8	
Foreign Body		X		X	X	X	X	X		6
Infiltration Cellular, Histiocyte		1		2	1	2	1	1		6 1.3
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	8	
Foreign Body	X		X	X	X	X		X		6

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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									
15 mg/m3									
ANIMAL ID	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	3	3	3	3	4	4	5	
5	6	0	2	3	4	8	9	1	
									* TOTALS
Infiltration Cellular, Histiocyte	3	2	3	2	3				6 2.7

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	8	
Lung	+	+	+	+	+	+	+	+	8	
Foreign Body	X	X	X	X	X	X	X	X		8
Infiltration Cellular, Histiocyte	2	2	1	1	2	1	2	1		8 1.5
Inflammation, Chronic Active	1	1	1	1		1	1	1		7 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	
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	2	3	3	2	3	3	3		8 2.8
Respiratory Epithelium, Accumulation, Hyaline Droplet	1	1	1	1	1	1	1	1		8 1.0

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 Lab: BNW

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		
		2	2	2	2	2	2	2		
		2	2	3	3	3	4	4		
		5	6	0	2	3	8	9		
* TOTALS										

Trachea + + + + + + + +

8

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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 + .. Tissue examined microscopically
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 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS MALE 30 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		
	ANIMAL ID	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0		
		4	4	4	4	4	4	4		
		2	2	3	3	3	4	4		
		5	6	0	2	3	8	9		
* TOTALS										

ALIMENTARY SYSTEM

Intestine Small, Ileum	M	M	M	+	M	M	M	M	1
Intestine Small, Jejunum	M	M	M	M	M	M	M	M	0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial	+	+	+	+	+	+	+	+	8	
Fibrosis								1		1 1.0
Foreign Body	X	X	X			X		X		5
Infiltration Cellular, Histiocyte	1	2	2			2		3		5 2.0
Pigmentation				2						1 2.0
Lymph Node, Mediastinal	+	+	+	+	+	+	M	+		7

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HARLAN SPRAGUE DAWLEY RATS MALE 30 mg/m3	DAY ON TEST								ANIMAL ID		
	0	0	0	0	0	0	0	0			
	1	1	1	1	1	1	1	1	0		
	8	8	8	8	8	8	8	8	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		
	2	2	3	3	3	4	4	5	5		
	5	6	0	2	3	8	9	1	1		
	* TOTALS										
Foreign Body	X	X	X	X	X	X		X			7
Infiltration Cellular, Histiocyte	3	3	4	2	3	3		3			7 3.0
Pigmentation			2								1 2.0

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+			8
Lung	+	+	+	+	+	+	+	+			8
Foreign Body	X	X	X	X	X	X	X	X			8
Infiltration Cellular, Histiocyte	1	2	2	2	1	2	2	2			8 1.8
Inflammation, Chronic Active		1	1	1	1	1	1	1			7 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			7 1.0
Nose	+	+	+	+	+	+	+	+			8
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	3	2	3	3	3	3	4			8 2.9

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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
30 mg/m3	8	8	8	8	8	8	8	8	
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	
	2	2	3	3	3	4	4	5	
	5	6	0	2	3	8	9	1	
									* TOTALS
Respiratory Epithelium, Accumulation, Hyaline Droplet	1	1	1	1	2	1	1	1	8 1.1
Trachea	+	+	+	+	+	+	+	+	8

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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HARLAN SPRAGUE DAWLEY RATS MALE 60 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	
		6	6	6	6	6	6	6	6	
		2	2	3	3	3	4	4	5	
		5	6	0	2	3	8	9	1	* TOTALS

ALIMENTARY SYSTEM

Intestine Small, Ileum	M	M	M	M	M	M	M	M	0
Intestine Small, Jejunum	M	M	M	M	M	M	M	M	0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex									1
Hyperplasia, Lymphoid									1 4.0

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial	+	+	+	+	+	+	+	+	8
Fibrosis	1								1 1.0
Foreign Body	X	X	X	X	X	X	X	X	8
Infiltration Cellular, Histiocyte	4	3	2	1	2	2	2	1	8 2.1
Lymph Node, Mediastinal	+	+	+	+	+	+	+	I	7

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

Fibrosis					2		1	2 1.5
Foreign Body	X	X	X	X	X	X	X	7
Infiltration Cellular, Histiocyte	3	2	3	3	4	3	4	7 3.1
Pigmentation		2						1 2.0

INTEGUMENTARY SYSTEM

Skin									1
Inflammation, Chronic Active							4	1 4.0	

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	8
Lung	+	+	+	+	+	+	+	+	8
Foreign Body	X	X	X	X	X	X	X	X	8
Infiltration Cellular, Histiocyte	2	3	2	2	2	2	2	2	8 2.1
Inflammation, Chronic Active	1	1	1	1	1	1	1	1	8 1.0
Proteinosis	1								1 1.0
Alveolar Epithelium, Hyperplasia	1	1	1	1	1	1	1	1	8 1.0
Interstitialium, Fibrosis	2	1	1	2	1	2	2	2	8 1.6
Nose	+	+	+	+	+	+	+	+	8

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I .. Insufficient tissue

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BLANK .. Not examined microscopically

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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	
	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	
	2	2	3	3	3	4	4	5	
	5	6	0	2	3	8	9	1	
	* TOTALS								
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	2	2	3	3	2	3	3	8 2.6
Respiratory Epithelium, Accumulation, Hyaline Droplet	1	1	1	1	1	1	1	1	8 1.0
Trachea Glands, Inflammation, Suppurative	+	+	+	+	+	+	+	+	8 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

*** END OF REPORT ***

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