

**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:** 13:27:50  
**First Dose M/F:** 04/20/09 / NA  
**Lab:** BNW

F1\_16 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:** 07-Aug-2009 - 07-Aug-2009  
**Treatment Groups:** Include ALL  
**Study Gender:** Male  
**TDMSE Version:** 2.6.0.0\_007  
**PWG Approval Date:** NONE

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 First Dose M/F: 04/20/09 / NA  
 Lab: BNW

<b>HARLAN SPRAGUE DAWLEY RATS MALE Control</b>	DAY ON TEST	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	
		1	1	1	1	1	1	1	1	
		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	1	1	1	3	4	6		6
		5	1	5	9	4	3	1	2	<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Intestine Small, Ileum	M	M	M	M	M	M	M	M	<b>0</b>
Intestine Small, Jejunum	M	M	M	M	M	M	M	M	<b>0</b>

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

Lymph Node, Bronchial	+	M	+	+	I	+	M	+	<b>5</b>
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	<b>8</b>

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

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

Experiment Number: 20213 - 02  
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 Lab: BNW

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	
		1	1	1	1	1	1	1	1	
		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	1	1	1	3	4	6		6
		5	1	5	9	4	3	1	2	
<b>* TOTALS</b>										

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	<b>8</b>	
Lung	+	+	+	+	+	+	+	+	<b>8</b>	
Infiltration Cellular, Histiocyte			1			1			<b>2</b>	<b>1.0</b>
Inflammation, Chronic Active						1			<b>1</b>	<b>1.0</b>
Metaplasia, Osseous								1	<b>1</b>	<b>1.0</b>
Nose	+	+	+	+	+	+	+	+	<b>8</b>	
Olfactory Epithelium, Accumulation, Hyaline Droplet	1	1	1	1	1	1	1	1	<b>8</b>	<b>1.0</b>
Trachea	+	+	+	+	+	+	+	+	<b>8</b>	

**SPECIAL SENSES SYSTEM**

NONE

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

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 20213 - 02  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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Date Report Requested: 03/20/2012  
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 First Dose M/F: 04/20/09 / NA  
 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	
		1	1	1	1	1	1	1	1	
		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		
		0	1	1	1	3	4	6		
		5	1	5	9	4	3	1		
<b>* TOTALS</b>										

**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
Liver Necrosis	+								1
	4								1 4.0

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Adrenal Cortex								+	1
Adrenal Medulla								+	1

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

Lymph Node, Bronchial Foreign Body	+	+	M	+	+	+	+	+	7
	X	X		X	X	X	X	X	7

\* .. 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

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 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: 13:27:50  
 First Dose M/F: 04/20/09 / NA  
 Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	
	<b>HARLAN SPRAGUE DAWLEY RATS MALE</b>	1	1	1	1	1	1	1	1
<b>15 mg/m3</b>	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	
	0	1	1	1	3	4	6	6	
	5	1	5	9	4	3	1	2	
<b>* TOTALS</b>									
Infiltration Cellular, Histiocyte Pigmentation	1	1		1	1	1	1	1	<b>7 1.0</b>
								2	<b>1 2.0</b>
Lymph Node, Mediastinal Foreign Body	+	+	+	+	I	+	+	M	<b>6 5</b>
Infiltration Cellular, Histiocyte Pigmentation	X	X	X	X		X			<b>5 2.2</b>
	2	2	2	3		2		2	<b>1 2.0</b>

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	<b>8</b>
Lung	+	+	+	+	+	+	+	+	<b>8</b>
Foreign Body	X	X	X	X	X	X	X	X	<b>8</b>
Infiltration Cellular, Histiocyte	2	1	1	1	1	1	2	2	<b>8 1.4</b>
Inflammation, Chronic Active	1					1		1	<b>3 1.0</b>
Nose	+	+	+	+	+	+	+	+	<b>8</b>

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 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

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 First Dose M/F: 04/20/09 / NA  
 Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	
<b>HARLAN SPRAGUE DAWLEY RATS</b>	1	1	1	1	1	1	1	1	
<b>MALE</b>	0	0	0	0	0	0	0	0	
<b>15 mg/m3</b>									
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	1	1	3	4	6	6	
	5	1	5	9	4	3	1	2	
									<b>* TOTALS</b>
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	2	2	1	1	2	2	1	<b>8 1.6</b>
Respiratory Epithelium, Accumulation, Hyaline Droplet	1	1	1	1	1	1	1	1	<b>8 1.0</b>
Trachea	+	+	+	+	+	+	+	+	<b>8</b>

**SPECIAL SENSES SYSTEM**

NONE

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

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

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Date Report Requested: 03/20/2012  
 Time Report Requested: 13:27:50  
 First Dose M/F: 04/20/09 / NA  
 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	
		1	1	1	1	1	1	1	1	
		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	4	
		0	1	1	1	3	4	6	6	
		5	1	5	9	4	3	1	2	
<b>* TOTALS</b>										

**ALIMENTARY SYSTEM**

Intestine Small, Ileum	M	M	M	M	M	M	M	M	<b>0</b>
Intestine Small, Jejunum	M	M	M	M	M	M	M	M	<b>0</b>

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

Lymph Node, Bronchial	+	+	+	+	+	+	+	+	<b>8</b>	
Foreign Body	X	X	X	X	X	X	X	X		<b>8</b>
Infiltration Cellular, Histiocyte	2	1	1	1	2	2	1	2		<b>8 1.5</b>
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	<b>8</b>	
Foreign Body	X	X	X	X			X			<b>5</b>
Infiltration Cellular, Histiocyte	3	3	2	1			3			<b>5 2.4</b>

\* .. 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

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 Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	
	<b>HARLAN SPRAGUE DAWLEY RATS MALE</b>	1	1	1	1	1	1	1	1
<b>30 mg/m3</b>	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	
	4	4	4	4	4	4	4	4	
	0	1	1	1	3	4	6	6	
	5	1	5	9	4	3	1	2	
									<b>* TOTALS</b>
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	2	2	2	2	2	2	2	2	8 2.0
Inflammation, Chronic Active	1					1		1	3 1.0
Nose	+	+	+	+	+	+	+	+	8
Olfactory Epithelium, Accumulation, Hyaline Droplet	1	1	1	2	1	1	2	2	8 1.4
Respiratory Epithelium, Accumulation, Hyaline Droplet	1	1	1	1	2	1	1	2	8 1.3
Trachea	+	+	+	+	+	+	+	+	8

\* .. 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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 Lab: BNW

<b>HARLAN SPRAGUE DAWLEY RATS</b> <b>MALE</b> <b>30 mg/m3</b>	DAY ON TEST	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1
		1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0
	ANIMAL ID	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	
		4	4	4	4	4	4	4	
		0	1	1	1	3	4	6	
		5	1	5	9	4	3	1	
<b>* TOTALS</b>									

**SPECIAL SENSES SYSTEM**

NONE

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

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

Experiment Number: 20213 - 02  
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 First Dose M/F: 04/20/09 / NA  
 Lab: BNW

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	
		1	1	1	1	1	1	1	1	
		0	0	0	0	0	0	0		
	ANIMAL ID	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0		
		6	6	6	6	6	6	6		
		0	1	1	1	3	4	6		
		5	1	5	9	4	3	1		
<b>* TOTALS</b>										

**ALIMENTARY SYSTEM**

Intestine Small, Ileum	M	M	M	M	M	M	M	M	<b>0</b>
Intestine Small, Jejunum	M	M	M	M	M	M	M	M	<b>0</b>
Liver				+					<b>1</b>
Hepatodiaphragmatic Nodule				X					<b>1</b>

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Preputial Gland									<b>1</b>
Inflammation, Chronic Active								4	<b>1 4.0</b>

**HEMATOPOIETIC SYSTEM**

Lymph Node, Bronchial	+	+	+	+	+	+	+	+	<b>8</b>
Foreign Body	X	X		X	X	X	X	X	<b>7</b>

\* .. 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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 Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	
<b>HARLAN SPRAGUE DAWLEY RATS MALE</b>	1	1	1	1	1	1	1	1	
<b>60 mg/m3</b>	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	
	0	1	1	1	3	4	6	6	
	5	1	5	9	4	3	1	2	
	<b>* TOTALS</b>								
Infiltration Cellular, Histiocyte	1	3		1	1	1	1	2	<b>7 1.4</b>
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	<b>8</b>
Foreign Body	X	X	X	X	X	X	X	X	<b>8</b>
Infiltration Cellular, Histiocyte	3	3	3	3	4	2	3	3	<b>8 3.0</b>

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	<b>8</b>	
Lung	+	+	+	+	+	+	+	+	<b>8</b>	
Foreign Body	X	X	X	X	X	X	X	X		<b>8</b>
Infiltration Cellular, Histiocyte	2	2	2	2	2	2	2	2		<b>8 2.0</b>
Inflammation, Chronic Active	1	1	1	1	1	1	1	1		<b>8 1.0</b>
Nose	+	+	+	+	+	+	+	+	<b>8</b>	
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	3	2	2	3	3	2	2		<b>8 2.4</b>

\* .. 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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 Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	
<b>HARLAN SPRAGUE DAWLEY RATS</b>	1	1	1	1	1	1	1	1	
<b>MALE</b>	0	0	0	0	0	0	0	0	
<b>60 mg/m3</b>									
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	
	0	1	1	1	3	4	6	6	
	5	1	5	9	4	3	1	2	
<b>* TOTALS</b>									
Respiratory Epithelium, Accumulation, Hyaline Droplet	1	1	1	1	1	1	1	2	<b>7 1.1</b>
Respiratory Epithelium, Metaplasia, Squamous	1								<b>1 1.0</b>
Trachea	+	+	+	+	+	+	+	+	<b>8</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

\*\*\* END OF REPORT \*\*\*

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