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** 

Lab: BNW

Date Report Requested: 03/20/2012 Time Report Requested: 13:25:31

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

F1\_4 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:** 15-May-2009 - 15-May-2009

**Treatment Groups:** Include ALL

**Study Gender:** Male

**TDMSE Version:** 2.6.0.0\_007

**PWG Approval Date:** NONE

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: 13:25:31 First Dose M/F: 04/20/09 / NA

Lab: BNW

DAY ON TEST HARLAN SPRAGUE DAWLEY RATS MALE	0 0 2 6									
Control  ANIMAL ID	0 0 0 0 6	0 0 0 0 8	0 0 0 1 3	0 0 0 1 4	0 0 0 2 8	0 0 0 3 7	0 0 0 4 2	0 0 0 5 2	**	ТОТА
ALIMENTARY SYSTEM										
Intestine Small, Ileum	М	М	М	М	М	М	M	М	0	
Intestine Small, Jejunum	М	М	М	М	М	М	M	М	0	
CARDIOVASCULAR SYSTEM										
NONE										
ENDOCRINE SYSTEM										
NONE										
GENERAL BODY SYSTEM										
NONE										
GENITAL SYSTEM										
NONE										
HEMATOPOIETIC SYSTEM										
		+	+	+	+	+	+	+	8	
Lymph Node, Bronchial		т								

# **INTEGUMENTARY SYSTEM**

NONE

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

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

<sup>+ ..</sup> Tissue examined microscopically

Test Type: 39-WEEK

Route: RESPIRATORY EXPOSURE WHOLE BODY

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CAS Number: BLASTINGSAND

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Lab: BNW

DAY ON TEST HARLAN SPRAGUE DAWLEY RATS MALE	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	
Control  ANIMAL ID	0 0 0 0 6	0 0 0 0 8	0 0 0 1 3	0 0 0 1 4	0 0 0 2 8	0 0 0 3 7	0 0 0 4 2	0 0 0 5 2	* TOTALS

### **MUSCULOSKELETAL SYSTEM**

NONE

## **NERVOUS SYSTEM**

NONE

## **RESPIRATORY SYSTEM**

Larynx	+ + + + + + +	8
Lung Infiltration Cellular, Histiocyte	+ + + + + + + + 1	8 1 1.0
Nose	+ + + + + + +	8
Trachea	+ + + + + + +	8

# **SPECIAL SENSES SYSTEM**

NONE

### **URINARY SYSTEM**

NONE

I .. Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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X .. Lesion present

M .. Missing tissue

Test Type: 39-WEEK

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

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CAS Number: BLASTINGSAND

Date Report Requested: 03/20/2012 Time Report Requested: 13:25:31 First Dose M/F: 04/20/09 / NA

Lab: BNW

DAY ON TEST HARLAN SPRAGUE DAWLEY RATS MALE	0 0 2 6								
15 mg/m3  ANIMAL ID	0 0 2 0 6	0 0 2 0 8	0 0 2 1 3	0 0 2 1 4	0 0 2 2 8	0 0 2 3 7	0 0 2 4 2	0 0 2 5 2	* TOTA
ALIMENTARY SYSTEM									
Intestine Small, Ileum	М	М	М	М	М	М	М	М	0
Intestine Small, Jejunum	М	М	М	М	М	М	М	М	0
CARDIOVASCULAR SYSTEM	•								
NONE									
ENDOCRINE SYSTEM	•								
NONE									
GENERAL BODY SYSTEM									
NONE									
GENITAL SYSTEM									
NONE									
HEMATOPOIETIC SYSTEM									
Lymph Node, Bronchial	+	+	+	+	+	+	+	+	8
Lymph Node, Mediastinal	+	М		М	+			+	5

## **INTEGUMENTARY SYSTEM**

NONE

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

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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Test Type: 39-WEEK

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

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Abrasive blasting agents (blasting sand)

CAS Number: BLASTINGSAND

Date Report Requested: 03/20/2012 Time Report Requested: 13:25:31 First Dose M/F: 04/20/09 / NA

Lab: BNW

DAY ON TEST HARLAN SPRAGUE DAWLEY RATS MALE	0 0 2 6								
15 mg/m3  ANIMAL ID	0 0 2 0 6	0 0 2 0 8	0 0 2 1 3	0 0 2 1 4	0 0 2 2 8	0 0 2 3 7	0 0 2 4 2	0 0 2 5 2	* TOTALS

### **MUSCULOSKELETAL SYSTEM**

NONE

## **NERVOUS SYSTEM**

NONE

## **RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	8	
Lung	+	+	+	+	+	+	+	+	8	
Foreign Body	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ		8
Infiltration Cellular, Histiocyte			1							1 1.0
Inflammation, Chronic Active							1	1		2 1.0
Metaplasia, Osseous				1						1 1.0
Nose	+	+	+	+	+	+	+	+	8	
Olfactory Epithelium, Accumulation, Hyaline Droplet				1	1					2 1.0
Olfactory Epithelium, Metaplasia, Respiratory		1								1 1.0
Trachea	+	+	+	+	+	+	+	+	8	

## **SPECIAL SENSES SYSTEM**

NONE

## **URINARY 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

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: 13:25:31 First Dose M/F: 04/20/09 / NA

Lab: BNW

DAY ON TEST HARLAN SPRAGUE DAWLEY RATS MALE	0 0 2 6								
15 mg/m3  ANIMAL ID	0 0 2 0 6	0 0 2 0 8	0 0 2 1 3	0 0 2 1 4	0 0 2 2 8	0 0 2 3 7	0 0 2 4 2	0 0 2 5 2	* TOTALS

NONE

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

<sup>2)</sup> Mild

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: 13:25:31 First Dose M/F: 04/20/09 / NA

Lab: BNW

						1			
DAY ON TEST HARLAN SPRAGUE DAWLEY RATS MALE	0 0 2 6								
30 mg/m3  ANIMAL ID	0 0 4 0 6	0 0 4 0 8	0 0 4 1 3	0 0 4 1 4	0 0 4 2 8	0 0 4 3 7	0 0 4 4 2	0 0 4 5 2	
ALIMENTARY SYSTEM				1		1			
Intestine Small, Ileum	М	М	М	М	М	М	М	М	(
Intestine Small, Jejunum	М	М	М	М	М	М	М	М	O
CARDIOVASCULAR SYSTEM				•		•			
NONE									
ENDOCRINE SYSTEM									
NONE									
GENERAL BODY SYSTEM									
NONE									
GENITAL SYSTEM	•								
NONE									
HEMATOPOIETIC SYSTEM									
Lymph Node, Bronchial	+	+	+	+	+	+	+	+	8
Lymph Node, Mediastinal	+								7

# **INTEGUMENTARY SYSTEM**

NONE

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

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

<sup>+ ..</sup> Tissue examined microscopically

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: 13:25:31 First Dose M/F: 04/20/09 / NA

Lab: BNW

DAY ON TEST HARLAN SPRAGUE DAWLEY RATS MALE	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	
30 mg/m3  ANIMAL ID	0 0 4 0 6	0 0 4 0 8	0 0 4 1 3	0 0 4 1 4	0 0 4 2 8	0 0 4 3 7	0 0 4 4 2	0 0 4 5 2	* TOTALS

### **MUSCULOSKELETAL SYSTEM**

NONE

## **NERVOUS SYSTEM**

NONE

# **RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	8		
Lung Foreign Body Infiltration Cellular, Histiocyte Inflammation, Chronic Active	+ X 1	+ X 1 1	+ X	+ X	+ X 1	*X	+ X 1	+ X	8	2	1.0 1.0
Metaplasia, Osseous  Nose Olfactory Epithelium, Accumulation, Hyaline Droplet	+	+	+ 1	+	+	+	+	+	8		1.0
Trachea	+	+	+	+	+	+	+	+	8		

## **SPECIAL SENSES SYSTEM**

NONE

## **URINARY SYSTEM**

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)

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

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: 13:25:31 First Dose M/F: 04/20/09 / NA

Lab: BNW

DAY ON TEST HARLAN SPRAGUE DAWLEY RATS MALE	0 0 2 6								
30 mg/m3  ANIMAL ID	0 0 4 0 6	0 0 4 0 8	0 0 4 1 3	0 0 4 1 4	0 0 4 2 8	0 0 4 3 7	0 0 4 4 2	0 0 4 5 2	* TOTALS

NONE

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

<sup>2)</sup> Mild 4) Marked

Test Type: 39-WEEK

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

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CAS Number: BLASTINGSAND

Date Report Requested: 03/20/2012 Time Report Requested: 13:25:31 First Dose M/F: 04/20/09 / NA

Lab: BNW

				_						
DAY ON TEST	0	0	0	0	0	0	0	0		
HARLAN SPRAGUE DAWLEY RATS	2 6	0 2 6	2 6	0 0 2 6	0 0 2 6	0 0 2 6	0 2 6	2 6		
MALE 60 mg/m3	0	0	0	0	0	0	0	0	<u></u>	
ANIMAL ID	0 6	0 6	0 6	0	0	0	0	0		
	0 6	0 8	1 3	1	6 2 8	0 6 3 7	4 2	5 2	* TOTA	۱LS
ALIMENTARY SYSTEM		1	•	1	•		•			
Intestine Small, Ileum	М	М	М	М	М	М	М	М	0	
Intestine Small, Jejunum	М	М	M	М	М	М	M	М	0	
CARDIOVASCULAR SYSTEM		•								
NONE										
ENDOCRINE SYSTEM										
NONE										
GENERAL BODY SYSTEM				-	-	-		-		
NONE										
GENITAL SYSTEM										
NONE										
HEMATOPOIETIC SYSTEM										
Lymph Node, Bronchial	+	+	М	+	+	+	+	+	7	
Lymph Node, Mediastinal	+	+	М	+	+	+	ı	+	6	
			-	-	-		-			

# **INTEGUMENTARY SYSTEM**

NONE

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) M

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

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Abrasive blasting agents (blasting sand)

CAS Number: BLASTINGSAND

Date Report Requested: 03/20/2012 Time Report Requested: 13:25:31 First Dose M/F: 04/20/09 / NA

Lab: BNW

DAY ON TEST HARLAN SPRAGUE DAWLEY RATS MALE	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	
60 mg/m3  ANIMAL ID	0 0 6 0 6	0 0 6 0 8	0 0 6 1 3	0 0 6 1 4	0 0 6 2 8	0 0 6 3 7	0 0 6 4 2	0 0 6 5 2	* TOTALS

### **MUSCULOSKELETAL SYSTEM**

NONE

## **NERVOUS SYSTEM**

NONE

## **RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	8	3	
Lung	+	+	+	+	+	+	+	+	8	3	
Foreign Body	Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ		8	3
Infiltration Cellular, Histiocyte	1	1	1	1	1	1	1	1		8	3 1.0
Inflammation, Chronic Active					1	1	1			3	3 1.0
Metaplasia, Osseous			1							1	1.0
Alveolar Epithelium, Hyperplasia, Focal			3							1	3.0
Nose	+	+	+	+	+	+	+	+	8	3	
Olfactory Epithelium, Accumulation, Hyaline Droplet					1	1				2	2 1.0
Trachea	+	+	+	+	+	+	+	+	8	3	

## **SPECIAL SENSES SYSTEM**

NONE

## **URINARY 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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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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Test Type: 39-WEEK

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

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CAS Number: BLASTINGSAND

Date Report Requested: 03/20/2012 Time Report Requested: 13:25:31 First Dose M/F: 04/20/09 / NA

Lab: BNW

DAY ON TEST HARLAN SPRAGUE DAWLEY RATS MALE	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	0 0 2 6	
60 mg/m3  ANIMAL ID	0 0 6 0 6	80900	0 0 6 1 3	0 0 6 1 4	0 0 6 2 8	0 0 6 3 7	0 0 6 4 2	0 0 6 5 2	* TOTALS

NONE

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

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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