Test Type: 39-WEEK

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Abrasive blasting agents (blasting sand)

CAS Number: BLASTINGSAND

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

Date Report Requested: 03/20/2012 Time Report Requested: 13:27:50 First Dose M/F: 04/20/09 / NA

Lab: BNW

Test Type: 39-WEEK

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P04: NEOPLASMS 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 HARLAN SPRAGUE DAWLEY RATS MALE	0 1 1 0								
Control ANIMAL ID	0 0 0 0 5	0 0 0 1 1	0 0 0 1 5	0 0 0 1 9	0 0 0 3 4	0 0 0 4 3	0 0 0 6 1	0 0 0 6 2	* ТОТ
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	+	М	+	+	I	+	М	+	5
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	8

INTEGUMENTARY SYSTEM

NONE

- * .. Total animals with tissue examined microscopically; Total animals with tumor
- + .. Tissue examined microscopically
- X .. Lesion present
- I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 39-WEEK

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P04: NEOPLASMS 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 HARLAN SPRAGUE DAWLEY RATS MALE	0 1 1 0								
Control ANIMAL IE	0 0 0 0 5	0 0 0 1 1	0 0 0 1 5	0 0 0 1 9	0 0 0 3 4	0 0 0 4 3	0 0 0 6 1	0 0 0 6 2	

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+ + + + + + +	8
Lung	+ + + + + + +	8
Nose	+ + + + + + +	8
Trachea	+ + + + + + +	8

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

^{* ..} Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 39-WEEK

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P04: NEOPLASMS 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 HARLAN SPRAGUE DAWLEY RATS MALE	0 1 1 0								
15 mg/m3 ANIMAL ID	0 0 2 0 5	0 0 2 1 1	0 0 2 1 5	0 0 2 1 9	0 0 2 3 4	0 0 2 4 3	0 0 2 6 1	0 0 2 6 2	* TOTAL
ALIMENTARY SYSTEM									
Intestine Small, Ileum	М	М	М	М	М	М	М	М	0
Intestine Small, Jejunum	М	М	М	М	М	М	М	M	0
Liver	+								1
CARDIOVASCULAR SYSTEM									
NONE									
ENDOCRINE SYSTEM									
Adrenal Cortex							+		1
Adrenal Medulla							+		1
GENERAL BODY SYSTEM									
NONE						_			
GENITAL SYSTEM									
NONE		_		_	_	-			
HEMATOPOIETIC SYSTEM									
Lymph Node, Bronchial	+	+	М	+	+	+	+	+	7
Lymph Node, Mediastinal	+	+	+	+	ı	+	+	М	6

A .. Autolysis precludes evaluation

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

Test Type: 39-WEEK

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P04: NEOPLASMS 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 HARLAN SPRAGUE DAWLEY RATS MALE	0 1 1 0	0 1 1 0	0 1 1 0	0 1 1 0	0 1 1 0	1 1	1	<i>'</i>	0 1 1 0	
15 mg/m3 ANIMAL ID	0 0 2 0 5	0 0 2 1 1	0 0 2 1 5	0 0 2 1 9	0 0 2 3 4	2 / 1	0 0 2 6 1	6 6	0 2 6	* TOTA

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+ + + + + + +	8
Lung	+ + + + + + +	8
Nose	+ + + + + + +	8
Trachea	+ + + + + + +	8

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

- * .. Total animals with tissue examined microscopically; Total animals with tumor
- + .. Tissue examined microscopically
- X .. Lesion present
- I .. Insufficient tissue

- M .. Missing tissue
- A .. Autolysis precludes evaluation
- BLANK .. Not examined microscopically

Test Type: 39-WEEK

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

Multiple Organ

P04: NEOPLASMS 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

8

Lab: BNW

DAY ON TEST HARLAN SPRAGUE DAWLEY RATS MALE	0 1 1 0								
15 mg/m3 ANIMAL ID	0 0 2 0 5	0 0 2 1 1	0 0 2 1 5	0 0 2 1 9	0 0 2 3 4	0 0 2 4 3	0 0 2 6 1	0 0 2 6 2	* TOTALS

M .. Missing tissue

A .. Autolysis precludes evaluation

^{* ..} Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

Test Type: 39-WEEK

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P04: NEOPLASMS 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 HARLAN SPRAGUE DAWLEY RATS MALE	0 1 1 0	0 1 1 0	0 1 1 0	0 1 1 0	0 1 1 0	0 1 1 0	0 1 1 0	0 1 1 0	
30 mg/m3 ANIMAL ID	0 0 4 0 5	0 0 4 1	0 0 4 1 5	0 0 4 1 9	0 0 4 3 4	0 0 4 4 3	0 0 4 6 1	0 0 4 6 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	+	+	+	+	+	+	+	+	8

INTEGUMENTARY SYSTEM

NONE

M .. Missing tissue

A .. Autolysis precludes evaluation

^{* ..} Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

Test Type: 39-WEEK

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P04: NEOPLASMS 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 HARLAN SPRAGUE DAWLEY RATS MALE	0 1 1 0								
30 mg/m3 ANIMAL ID	0 0 4 0 5	0 0 4 1 1	0 0 4 1 5	0 0 4 1 9	0 0 4 3 4	0 0 4 4 3	0 0 4 6 1	0 0 4 6 2	* TOTALS

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+ + + + + + +	8
Lung	+ + + + + + +	8
Nose	+ + + + + + +	8
Trachea	+ + + + + + +	8

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

^{* ..} Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 39-WEEK

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P04: NEOPLASMS 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 HARLAN SPRAGUE DAWLEY RATS MALE	0 1 1 0	0 1 1 0	0 1 1 0	0 1 1 0	0 1 1 0	0 1 1 0	0 1 1 0	0 1 1 0	
60 mg/m3 ANIMAL ID	0 0 6 0 5	0 0 6 1	0 0 6 1 5	0 0 6 1 9	0 0 6 3 4	0 0 6 4 3	0 0 6 6 1	0 0 6 6 2	* TO
ALIMENTARY SYSTEM									
Intestine Small, Ileum	М	М	М	М	М	М	М	М	(
Intestine Small, Jejunum	М	М	М	М	М	М	М	М	C
Liver			+						1
CARDIOVASCULAR SYSTEM	•	•				•			
NONE									
ENDOCRINE SYSTEM				-		-			
NONE									
GENERAL BODY SYSTEM					-	-			
NONE									
GENITAL SYSTEM									
Preputial Gland							+		1
HEMATOPOIETIC SYSTEM									
Lymph Node, Bronchial	+	+	+	+	+	+	+	+	8
									8

INTEGUNIENTART STOTEM

- * .. Total animals with tissue examined microscopically; Total animals with tumor
- + .. Tissue examined microscopically
- X .. Lesion present
- I .. Insufficient tissue

- M .. Missing tissue
- A .. Autolysis precludes evaluation
- BLANK .. Not examined microscopically

Test Type: 39-WEEK

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P04: NEOPLASMS 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

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+ + + + + + +	8
Lung	+ + + + + + + +	8
Nose	+ + + + + + + +	8
Trachea	+ + + + + + +	8

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

* .. Total animals with tissue examined microscopically; Total animals with tumor

M .. Missing tissue

A .. Autolysis precludes evaluation

8

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

Test Type: 39-WEEK

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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Date Report Requested: 03/20/2012 Time Report Requested: 13:27:50 First Dose M/F: 04/20/09 / NA

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*** END OF REPORT ***

^{* ..} Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically