Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

NTP Study Number: C20533

Lock Date: 07/06/2006

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Male

TDMSE Version: 3.0.2.3_002

PWG Approval Date: NONE

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Abrasive blasting agents (garnet) **CAS Number:** GARNET

Date Report Requested: 04/05/2018 Time Report Requested: 14:36:02 First Dose M/F: 02/27/06 / NA

Lab: BNW

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Abrasive blasting agents (garnet)

CAS Number: GARNET

Date Report Requested: 04/05/2018 Time Report Requested: 14:36:02 First Dose M/F: 02/27/06 / NA

Lab: BNW

	_					
DAY ON TEST FISCHER 344 RATS MALE	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	
	6	6	6	6	6	
0 mg/m3 ANIMAL ID	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	* TOTALS
ALIMENTARY SYSTEM						
NONE						
CARDIOVASCULAR SYSTEM						
NONE			_	_		
ENDOCRINE SYSTEM						
NONE						
GENERAL BODY SYSTEM						
NONE						
GENITAL SYSTEM						
NONE						
HEMATOPOIETIC SYSTEM						
Lymph Node, Bronchial	+	+	+	+	+	5
Lymph Node, Mediastinal	+	+	+	+	+	5
INTEGUMENTARY SYSTEM						
NONE						

MUSCULOSKELETAL SYSTEM

- * .. 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: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Abrasive blasting agents (garnet) **CAS Number:** GARNET

Date Report Requested: 04/05/2018 Time Report Requested: 14:36:02 First Dose M/F: 02/27/06 / NA

Lab: BNW

DAY ON TEST FISCHER 344 RATS MALE	0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6		
0 mg/m3 ANIMAL ID	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	*	TOTALS
NONE							
NERVOUS SYSTEM							
NONE							
RESPIRATORY SYSTEM							
Larynx	+	+	+	+	+		5
Lung	+	+	+	+	+		5
Nose	+	+	+	+	+		5
Trachea	+	+	+	+	+		5
SPECIAL SENSES SYSTEM							
NONE							
URINARY SYSTEM							
NONE							
SYSTEMIC LESIONS							
Multiple Organ	+	+	+	+	+		5

^{* ..} 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: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

+ .. Tissue examined microscopically

X .. Lesion present
I .. Insufficient tissue

Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Abrasive blasting agents (garnet)

CAS Number: GARNET

Date Report Requested: 04/05/2018 Time Report Requested: 14:36:02 First Dose M/F: 02/27/06 / NA

Lab: BNW

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

DAY ON T	EST 0 0 1 6	0 0	0 1	0	0 0 1 6		
3 mg/m3 ANIMA	L ID 0 0 2 0 1	0 0 2 2 0 0	0 2	0 2 0	0 0 2 0 5		* TOTALS
ALIMENTARY SYSTEM	·	•	•	•			
Liver		+	+				2
CARDIOVASCULAR SYSTEM	·		•	•			
NONE							
ENDOCRINE SYSTEM	·						
NONE							
GENERAL BODY SYSTEM							
NONE							
GENITAL SYSTEM							
NONE							
HEMATOPOIETIC SYSTEM							
Lymph Node, Bronchial	+	- +	+	+	+		5
Lymph Node, Mediastinal	+	- N	1 +	+	+		4
INTEGUMENTARY SYSTEM							
NONE							
MUSCULOSKELETAL SYSTEM							
* Total animals with tissue examin	ed microsco	opica	lly; To	tal ani	imals wit	mor M Missing tissue	

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Abrasive blasting agents (garnet) **CAS Number:** GARNET

Date Report Requested: 04/05/2018 Time Report Requested: 14:36:02 First Dose M/F: 02/27/06 / NA

Lab: BNW

DAY ON TES	Г 0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6	
3 mg/m3 ANIMAL II	0	0 0 2 0 2	0 0 2 0 3	0 0 2 0 4	0 0 2 0 5	* TOTALS
NONE						
NERVOUS SYSTEM						
NONE						
RESPIRATORY SYSTEM						
Larynx	+	+	+	+	+	5
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
SPECIAL SENSES SYSTEM						
NONE						
URINARY SYSTEM				-		
NONE						
SYSTEMIC LESIONS						
Multiple Organ	+	+	+	+	+	5

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: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Abrasive blasting agents (garnet) **CAS Number:** GARNET

Date Report Requested: 04/05/2018 Time Report Requested: 14:36:02 First Dose M/F: 02/27/06 / NA

Lab: BNW

DAY ON TEST FISCHER 344 RATS MALE	0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6	
15 mg/m3 ANIMAL ID	0 0 4 0 1	0 0 4 0 2	0 0 4 0 3	0 0 4 0 4	0 0 4 0 5	* TOTALS
ALIMENTARY SYSTEM						
Liver		+				1
CARDIOVASCULAR SYSTEM						
NONE			-	-	-	
ENDOCRINE SYSTEM						
NONE						
GENERAL BODY SYSTEM						
NONE						
GENITAL SYSTEM						
NONE						
HEMATOPOIETIC SYSTEM						
Lymph Node, Bronchial	+	+	+	+	+	5
Lymph Node, Mediastinal	+	+	+	+	+	5
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: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Abrasive blasting agents (garnet) **CAS Number:** GARNET

Date Report Requested: 04/05/2018 Time Report Requested: 14:36:02 First Dose M/F: 02/27/06 / NA

Lab: BNW

DAY FISCHER 344 RATS MALE	ON TEST	0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6		
15 mg/m3	ANIMAL ID	0 0 4 0 1	0 0 4 0 2	0 0 4 0 3	0 0 4 0 4	0 0 4 0 5	* TOTA	ALS
NONE								
NERVOUS SYSTEM				-		-		
NONE								
RESPIRATORY SYSTEM								
Larynx		+	+	+	+	+	5	
Lung		+	+	+	+	+	5	
Nose	-	+	+	+	+	+	5	
Trachea	-	+	+	+	+	+	5	
SPECIAL SENSES SYSTEM								
NONE								
URINARY SYSTEM		_						
NONE								
SYSTEMIC LESIONS								
Multiple Organ	-	+	+	+	+	+	5	

^{* ..} 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: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Abrasive blasting agents (garnet)

CAS Number: GARNET

Date Report Requested: 04/05/2018 Time Report Requested: 14:36:02 First Dose M/F: 02/27/06 / NA

Lab: BNW

DAY ON TEST	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	
	6	6	6	6	6	
30 mg/m3 ANIMAL ID	0 0 6 0 1	0 0 6 0 2	0 0 6 0 3	0 0 6 0 4	0 0 6 0 5	* TOTAL
ALIMENTARY SYSTEM					1	
NONE						
CARDIOVASCULAR SYSTEM	•	•		•		
NONE						
ENDOCRINE SYSTEM						
NONE						
GENERAL BODY SYSTEM	•					
NONE						
GENITAL SYSTEM						
NONE						
HEMATOPOIETIC SYSTEM						
Lymph Node, Bronchial	М	+	+	+	+	4
Lymph Node, Mediastinal		Ν.4		+	_	4

MUSCULOSKELETAL 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: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Abrasive blasting agents (garnet)

CAS Number: GARNET

Date Report Requested: 04/05/2018 Time Report Requested: 14:36:02 First Dose M/F: 02/27/06 / NA

Lab: BNW

DAY ON TEST FISCHER 344 RATS MALE	0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6	
30 mg/m3 ANIMAL ID	0 0 6 0 1	0 0 6 0 2	0 0 6 0 3	0 0 6 0 4	0 0 6 0 5	* TOTALS
NONE						
NERVOUS SYSTEM				-	-	
NONE						
RESPIRATORY SYSTEM						
Larynx	+	+	+	+	+	5
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
SPECIAL SENSES SYSTEM						
NONE						
URINARY SYSTEM						
NONE						
SYSTEMIC LESIONS						
Multiple Organ	+	+	+	+	+	5

BLANK .. Not examined microscopically

*** 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

A .. Autolysis precludes evaluation