Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

NTP Study Number: C20536

Lock Date: 07/19/2010

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

ALL **Removal Date Range:**

Treatment Groups: Include ALL

Study Gender: Male

TDMSE Version: 3.0.2.3_002

PWG Approval Date: NONE

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Abrasive Blasting Agents: Specular Hematite

CAS Number: HEMATITESPEC

Date Report Requested: 04/05/2018 Time Report Requested: 14:35:42 First Dose M/F: 08/14/06 / NA

Lab: BNW

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Abrasive Blasting Agents: Specular Hematite

CAS Number: HEMATITESPEC

Date Report Requested: 04/05/2018 Time Report Requested: 14:35:42 First Dose M/F: 08/14/06 / NA

Lab: BNW

DAY ON TEST	0	0	0	0	0	
	1	0	0	0	0	
HER 344-TACONIC RATS MALE	6	6	6	6	6	
n3	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	
ANIIVIAL ID	0	0	0	0	0	
	0	0	0	0	0	
	1	2	3	4	5	

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

 Lymph Node, Bronchial
 +
 M
 +
 M
 +
 M
 +
 3

 Lymph Node, Mediastinal
 +
 +
 +
 +
 +
 +
 5

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL 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 4) I

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Abrasive Blasting Agents: Specular Hematite

CAS Number: HEMATITESPEC

Date Report Requested: 04/05/2018 Time Report Requested: 14:35:42 First Dose M/F: 08/14/06 / NA

Lab: BNW

FISCHER 344-TACON	DAY ON TEST	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 0					- * TOTALS
NONE							
NERVOUS SYSTEM		-	-		-	-	
NONE							
RESPIRATORY SYST	EM						
Larynx		+	+	+	+	+	5
•						+	_
Lung		+	+	+	+		5
		+	+		+		5

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) N

^{* ..} Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Abrasive Blasting Agents: Specular Hematite

CAS Number: HEMATITESPEC

Date Report Requested: 04/05/2018 Time Report Requested: 14:35:42 First Dose M/F: 08/14/06 / NA

Lab: BNW

DAY ON TEST FISCHER 344-TACONIC RATS MALE	0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6	
3 mg/m3 ANIMAL ID	0 0 2 0 1	0 0 2 0 2	0 0 2 0 3	0 0 2 0 4	0 0 2 0 5	* TOTA

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial

M M M M 1

Lymph Node, Mediastinal

5

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

- * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
- + .. Tissue examined microscopically

M .. Missing tissue

X.. Lesion present I .. Insufficient tissue A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Abrasive Blasting Agents: Specular Hematite

CAS Number: HEMATITESPEC

Date Report Requested: 04/05/2018 Time Report Requested: 14:35:42 First Dose M/F: 08/14/06 / NA

Lab: BNW

g/m3

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+ + + + +	5
Lung Foreign Body Inflammation, Chronic Active	+ + + + + 1	5 5 1.0 1 3.0
Nose	+ + + + +	5
Trachea	+ + + + +	5

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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)

^{* ..} Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

^{+ ..} Tissue examined microscopically

X.. Lesion present

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Abrasive Blasting Agents: Specular Hematite

CAS Number: HEMATITESPEC

Date Report Requested: 04/05/2018 Time Report Requested: 14:35:42 First Dose M/F: 08/14/06 / NA

Lab: BNW

FISCHER 344-TACONIC RA	AY ON TEST	0 0 1 6	0 0 1 6	1	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	 * тот/

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

2 Lymph Node, Bronchial Μ M M + 3 Lymph Node, Mediastinal M + M

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL 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: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Abrasive Blasting Agents: Specular Hematite

CAS Number: HEMATITESPEC

Date Report Requested: 04/05/2018 Time Report Requested: 14:35:42 First Dose M/F: 08/14/06 / NA

Lab: BNW

15 mg/m3 O O O O O O O O O O O O O O O O O O O
ANIMAL ID $\begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ 4 & 4 & 4 & 4 & 4 \end{bmatrix}$
ANIMAL ID 4 4 4 4 4

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+ + + +	5
Lung	+ + + + +	5
Foreign Body	2 2 2 2 2	5 2.0
Alveolus, Infiltration Cellular, Histiocyte	1 1	2 1.0
Nose	+ + + +	5
Trachea	+ + + + +	5

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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)

^{* ..} Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

^{+ ..} Tissue examined microscopically

X .. Lesion present

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Abrasive Blasting Agents: Specular Hematite

CAS Number: HEMATITESPEC

Date Report Requested: 04/05/2018 Time Report Requested: 14:35:42 First Dose M/F: 08/14/06 / NA

Lab: BNW

DAY O	ON TEST	0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6
30 mg/m3	NIMAL 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
ALIMENTARY SYSTEM NONE						

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial M M M +М 1

3

Lymph Node, Mediastinal + M + +Μ

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

- * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
- + .. Tissue examined microscopically

- M.. Missing tissue
- A .. Autolysis precludes evaluation
- X.. Lesion present I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Abrasive Blasting Agents: Specular Hematite

CAS Number: HEMATITESPEC

Date Report Requested: 04/05/2018 Time Report Requested: 14:35:42 First Dose M/F: 08/14/06 / NA

Lab: BNW

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	5	
Lung	+	+	+	+	+	5	
Foreign Body	2	2	3	2	2		5 2.2
Alveolus, Infiltration Cellular, Histiocyte	1	1	2	1	1		5 1.2
Nose	+	+	+	+	+	5	
Goblet Cell, Nasopharyngeal Duct, Hypertrophy		1					1 1.0
Trachea	+	+	+	+	+	5	

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

^{* ..} Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

^{+ ..} Tissue examined microscopically

X .. Lesion present

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Abrasive Blasting Agents: Specular Hematite

CAS Number: HEMATITESPEC

Date Report Requested: 04/05/2018 Time Report Requested: 14:35:42 First Dose M/F: 08/14/06 / NA

Lab: BNW

FISCHER 344-TACONIC	DAY ON TEST RATS MALE	0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6	
60 mg/m3	ANIMAL ID	0 0 8 0 1	0 0 8 0 2	0 0 8 0 3	0 0 8 0 4	0 0 8 0 5	* TOTAI
ALIMENTARY SYSTEM							
NONE							
CARDIOVASCULAR SYS	STEM						
NONE							
ENDOCRINE SYSTEM							
NONE							
GENERAL BODY SYSTE	M						
NONE							
GENITAL SYSTEM							
NONE							
HEMATOPOIETIC SYSTI	EM						

INTEGUMENTARY SYSTEM

Lymph Node, Bronchial

Lymph Node, Mediastinal

NONE

MUSCULOSKELETAL 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

M +

M

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

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

4) Marked

2

5

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Abrasive Blasting Agents: Specular Hematite

CAS Number: HEMATITESPEC

Date Report Requested: 04/05/2018 Time Report Requested: 14:35:42 First Dose M/F: 08/14/06 / NA

Lab: BNW

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	5
Lung	+	+	+	+	+	5
Foreign Body	3	3	3	3	3	5 3.0
Alveolus, Infiltration Cellular, Histiocyte	2	2	2	2	2	5 2.0
Nose	+	+	+	+	+	5
Goblet Cell, Nasopharyngeal Duct, Hypertrophy	1	1	1	1	1	5 1.0
Trachea	+	+	+	+	+	5

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

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

^{1-4 ..} Lesion qualified as:

¹⁾ Minimal 3) Moderate

²⁾ Mild