

Experiment Number: 20536 - 02
Test Type: 39-WEEK
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Abrasive blasting agents (specular hematite)
CAS Number: HEMATITESPEC

Date Report Requested: 09/13/2012
Time Report Requested: 10:28:08
First Dose M/F: 07/27/09 / NA
Lab: BNW

F1_Rev.1_26 Wk. SSAC

NTP Study Number: C20536
Lock Date: 07/19/2010
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25017 SSAC
Removal Date Range: 22-Jan-2010 - 22-Jan-2010
Treatment Groups: Include ALL
Study Gender: Male
TDMSE Version: 2.6.0.0_007
PWG Approval Date: 02/08/2012

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF ABRASIVE BLASTING AGENTS (SPECULAR HEMATITE)

MALE RATS

Organ

Larynx
Larynx: Epiglottis
Lung

Lung: Alveolar Epithelium
Lung: Interstitium
Lymph Node, Bronchial

Lymph Node, Mediastinal

Trachea

Morphology

Foreign Body
Metaplasia
Foreign Body
Infiltration Cellular Histiocyte
Inflammation Chronic
Hyperplasia
Fibrosis
Foreign Body
Infiltration Cellular Histiocyte
Foreign Body
Hyperplasia
Infiltration Cellular Histiocyte
Foreign Body

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lacrimal Gland Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	1/1.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	100%	0%	0%
INT SACRIFICE 1	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (l)	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Larynx				
Foreign Body				
LESION RATES				
OVERALL (a)	0/8 (0%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
POLY-3 RATE (b)	0/8.00	8/8.00	8/8.00	8/8.00
POLY-3 PERCENT (g)	0%	100%	100%	100%
INT SACRIFICE 1	0/8 (0%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (l)	180 (l)	180 (l)
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Larynx				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/8 (0%)	1/8 (13%)	0/8 (0%)	0/8 (0%)
POLY-3 RATE (b)	0/8.00	1/8.00	0/8.00	0/8.00
POLY-3 PERCENT (g)	0%	12.5%	0%	0%
INT SACRIFICE 1	0/8 (0%)	1/8 (13%)	0/8 (0%)	0/8 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (l)	---	---
STATISTICAL TESTS				
POLY 3	P=0.555N	P=0.500	(e)	(e)
POLY 1.5	P=0.555N	P=0.500	(e)	(e)
POLY 6	P=0.555N	P=0.500	(e)	(e)
COCH-ARM / FISHERS	P=0.556N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.388N	P=0.159	(e)	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Larynx Ulcer				
LESION RATES				
OVERALL (a)	0/8 (0%)	1/8 (13%)	0/8 (0%)	0/8 (0%)
POLY-3 RATE (b)	0/8.00	1/8.00	0/8.00	0/8.00
POLY-3 PERCENT (g)	0%	12.5%	0%	0%
INT SACRIFICE 1	0/8 (0%)	1/8 (13%)	0/8 (0%)	0/8 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (l)	---	---
STATISTICAL TESTS				
POLY 3	P=0.555N	P=0.500	(e)	(e)
POLY 1.5	P=0.555N	P=0.500	(e)	(e)
POLY 6	P=0.555N	P=0.500	(e)	(e)
COCH-ARM / FISHERS	P=0.556N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.388N	P=0.159	(e)	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Larynx: Epiglottis Metaplasia				
LESION RATES				
OVERALL (a)	0/8 (0%)	5/8 (63%)	5/8 (63%)	7/8 (88%)
POLY-3 RATE (b)	0/8.00	5/8.00	5/8.00	7/8.00
POLY-3 PERCENT (g)	0%	62.5%	62.5%	87.5%
INT SACRIFICE 1	0/8 (0%)	5/8 (63%)	5/8 (63%)	7/8 (88%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (I)	180 (I)	180 (I)
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.003**	P=0.003**	P<0.001**
POLY 1.5	P<0.001**	P=0.003**	P=0.003**	P<0.001**
POLY 6	P<0.001**	P=0.003**	P=0.003**	P<0.001**
COCH-ARM / FISHERS	P=0.002**	P=0.013*	P=0.013*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

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 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Larynx: Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	0/8 (0%)	1/8 (13%)	0/8 (0%)	0/8 (0%)
POLY-3 RATE (b)	0/8.00	1/8.00	0/8.00	0/8.00
POLY-3 PERCENT (g)	0%	12.5%	0%	0%
INT SACRIFICE 1	0/8 (0%)	1/8 (13%)	0/8 (0%)	0/8 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (l)	---	---
STATISTICAL TESTS				
POLY 3	P=0.555N	P=0.500	(e)	(e)
POLY 1.5	P=0.555N	P=0.500	(e)	(e)
POLY 6	P=0.555N	P=0.500	(e)	(e)
COCH-ARM / FISHERS	P=0.556N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.388N	P=0.159	(e)	(e)

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 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Larynx: Glands Concretion				
LESION RATES				
OVERALL (a)	2/8 (25%)	0/8 (0%)	2/8 (25%)	0/8 (0%)
POLY-3 RATE (b)	2/8.00	0/8.00	2/8.00	0/8.00
POLY-3 PERCENT (g)	25%	0%	25%	0%
INT SACRIFICE 1	2/8 (25%)	0/8 (0%)	2/8 (25%)	0/8 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	180 (I)	---	180 (I)	---
STATISTICAL TESTS				
POLY 3	P=0.238N	P=0.223N	P=0.705	P=0.223N
POLY 1.5	P=0.238N	P=0.223N	P=0.705	P=0.223N
POLY 6	P=0.238N	P=0.223N	P=0.705	P=0.223N
COCH-ARM / FISHERS	P=0.240N	P=0.233N	P=0.715N	P=0.233N
MAX-ISO-POLY-3	P=0.099N	P=0.063N	P=1.000	P=0.063N

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 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Larynx: Glands Inflammation				
LESION RATES				
OVERALL (a)	0/8 (0%)	0/8 (0%)	1/8 (13%)	0/8 (0%)
POLY-3 RATE (b)	0/8.00	0/8.00	1/8.00	0/8.00
POLY-3 PERCENT (g)	0%	0%	12.5%	0%
INT SACRIFICE 1	0/8 (0%)	0/8 (0%)	1/8 (13%)	0/8 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	180 (l)	---
STATISTICAL TESTS				
POLY 3	P=0.680	(e)	P=0.500	(e)
POLY 1.5	P=0.680	(e)	P=0.500	(e)
POLY 6	P=0.680	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.683	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.388	(e)	P=0.159	(e)

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 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Liver				
Hepatodiaphragmatic Nodule				
LESION RATES				
OVERALL (a)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	1/1.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	100%	0%	0%
INT SACRIFICE 1	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (l)	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lung				
Foreign Body				
LESION RATES				
OVERALL (a)	0/8 (0%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
POLY-3 RATE (b)	0/8.00	8/8.00	8/8.00	8/8.00
POLY-3 PERCENT (g)	0%	100%	100%	100%
INT SACRIFICE 1	0/8 (0%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (l)	180 (l)	180 (l)
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lung				
Infiltration Cellular Histiocyte				
LESION RATES				
OVERALL (a)	2/8 (25%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
POLY-3 RATE (b)	2/8.00	8/8.00	8/8.00	8/8.00
POLY-3 PERCENT (g)	25%	100%	100%	100%
INT SACRIFICE 1	2/8 (25%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	180 (I)	180 (I)	180 (I)	180 (I)
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.002**	P=0.003**	P=0.003**	P=0.003**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

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 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lung				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/8 (0%)	2/8 (25%)	0/8 (0%)	4/8 (50%)
POLY-3 RATE (b)	0/8.00	2/8.00	0/8.00	4/8.00
POLY-3 PERCENT (g)	0%	25%	0%	50%
INT SACRIFICE 1	0/8 (0%)	2/8 (25%)	0/8 (0%)	4/8 (50%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (I)	---	180 (I)
STATISTICAL TESTS				
POLY 3	P=0.015*	P=0.223	(e)	P=0.024*
POLY 1.5	P=0.015*	P=0.223	(e)	P=0.024*
POLY 6	P=0.015*	P=0.223	(e)	P=0.024*
COCH-ARM / FISHERS	P=0.024*	P=0.233	(e)	P=0.038*
MAX-ISO-POLY-3	P=0.004**	P=0.063	(e)	P=0.004**

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 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lung				
Metaplasia Osseous				
LESION RATES				
OVERALL (a)	0/8 (0%)	1/8 (13%)	0/8 (0%)	1/8 (13%)
POLY-3 RATE (b)	0/8.00	1/8.00	0/8.00	1/8.00
POLY-3 PERCENT (g)	0%	12.5%	0%	12.5%
INT SACRIFICE 1	0/8 (0%)	1/8 (13%)	0/8 (0%)	1/8 (13%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (l)	---	180 (l)
STATISTICAL TESTS				
POLY 3	P=0.408	P=0.500	(e)	P=0.500
POLY 1.5	P=0.408	P=0.500	(e)	P=0.500
POLY 6	P=0.408	P=0.500	(e)	P=0.500
COCH-ARM / FISHERS	P=0.405	P=0.500	(e)	P=0.500
MAX-ISO-POLY-3	P=0.256	P=0.159	(e)	P=0.159

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 First Dose M/F: 07/27/09 / NA
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lung: Alveolar Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	0/8 (0%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
POLY-3 RATE (b)	0/8.00	8/8.00	8/8.00	8/8.00
POLY-3 PERCENT (g)	0%	100%	100%	100%
INT SACRIFICE 1	0/8 (0%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (I)	180 (I)	180 (I)
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

Experiment Number: 20536 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (specular hematite)
 CAS Number: HEMATITESPEC

Date Report Requested: 09/13/2012
 Time Report Requested: 10:28:08
 First Dose M/F: 07/27/09 / NA
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lung: Interstitium Fibrosis				
LESION RATES				
OVERALL (a)	0/8 (0%)	0/8 (0%)	0/8 (0%)	3/8 (38%)
POLY-3 RATE (b)	0/8.00	0/8.00	0/8.00	3/8.00
POLY-3 PERCENT (g)	0%	0%	0%	37.5%
INT SACRIFICE 1	0/8 (0%)	0/8 (0%)	0/8 (0%)	3/8 (38%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	180 (l)
STATISTICAL TESTS				
POLY 3	P=0.004**	(e)	(e)	P=0.086
POLY 1.5	P=0.004**	(e)	(e)	P=0.086
POLY 6	P=0.004**	(e)	(e)	P=0.086
COCH-ARM / FISHERS	P=0.009**	(e)	(e)	P=0.100
MAX-ISO-POLY-3	P=0.003**	(e)	(e)	P=0.020*

Experiment Number: 20536 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (specular hematite)
 CAS Number: HEMATITESPEC

Date Report Requested: 09/13/2012
 Time Report Requested: 10:28:08
 First Dose M/F: 07/27/09 / NA
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lymph Node, Bronchial Foreign Body				
LESION RATES				
OVERALL (a)	0/7 (0%)	5/5 (100%)	7/7 (100%)	5/7 (71%)
POLY-3 RATE (b)	0/7.00	5/5.00	7/7.00	5/7.00
POLY-3 PERCENT (g)	0%	100%	100%	71.4%
INT SACRIFICE 1	0/7 (0%)	5/5 (100%)	7/7 (100%)	5/7 (71%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (l)	180 (l)	180 (l)
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.023*	P<0.001**	P<0.001**	P=0.010**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	(e)	P<0.001**

Experiment Number: 20536 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (specular hematite)
 CAS Number: HEMATITESPEC

Date Report Requested: 09/13/2012
 Time Report Requested: 10:28:08
 First Dose M/F: 07/27/09 / NA
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lymph Node, Bronchial Hyperplasia				
LESION RATES				
OVERALL (a)	0/7 (0%)	1/5 (20%)	1/7 (14%)	1/7 (14%)
POLY-3 RATE (b)	0/7.00	1/5.00	1/7.00	1/7.00
POLY-3 PERCENT (g)	0%	20%	14.3%	14.3%
INT SACRIFICE 1	0/7 (0%)	1/5 (20%)	1/7 (14%)	1/7 (14%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (I)	180 (I)	180 (I)
STATISTICAL TESTS				
POLY 3	P=0.410	P=0.432	P=0.500	P=0.500
POLY 1.5	P=0.410	P=0.432	P=0.500	P=0.500
POLY 6	P=0.410	P=0.432	P=0.500	P=0.500
COCH-ARM / FISHERS	P=0.405	P=0.417	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.308	P=0.132	P=0.159	P=0.159

Experiment Number: 20536 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (specular hematite)
 CAS Number: HEMATITESPEC

Date Report Requested: 09/13/2012
 Time Report Requested: 10:28:08
 First Dose M/F: 07/27/09 / NA
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lymph Node, Bronchial Infiltration Cellular Histiocyte				
LESION RATES				
OVERALL (a)	0/7 (0%)	3/5 (60%)	7/7 (100%)	5/7 (71%)
POLY-3 RATE (b)	0/7.00	3/5.00	7/7.00	5/7.00
POLY-3 PERCENT (g)	0%	60%	100%	71.4%
INT SACRIFICE 1	0/7 (0%)	3/5 (60%)	7/7 (100%)	5/7 (71%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (l)	180 (l)	180 (l)
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.017*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.017*	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.017*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.009**	P=0.045*	P<0.001**	P=0.010**
MAX-ISO-POLY-3	P<0.001**	P=0.003**	(e)	P<0.001**

Experiment Number: 20536 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (specular hematite)
 CAS Number: HEMATITESPEC

Date Report Requested: 09/13/2012
 Time Report Requested: 10:28:08
 First Dose M/F: 07/27/09 / NA
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lymph Node, Mediastinal Foreign Body				
LESION RATES				
OVERALL (a)	0/8 (0%)	6/7 (86%)	7/8 (88%)	7/8 (88%)
POLY-3 RATE (b)	0/8.00	6/7.00	7/8.00	7/8.00
POLY-3 PERCENT (g)	0%	85.7%	87.5%	87.5%
INT SACRIFICE 1	0/8 (0%)	6/7 (86%)	7/8 (88%)	7/8 (88%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (I)	180 (I)	180 (I)
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.002**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20536 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (specular hematite)
 CAS Number: HEMATITESPEC

Date Report Requested: 09/13/2012
 Time Report Requested: 10:28:08
 First Dose M/F: 07/27/09 / NA
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lymph Node, Mediastinal Hyperplasia				
LESION RATES				
OVERALL (a)	0/8 (0%)	3/7 (43%)	3/8 (38%)	6/8 (75%)
POLY-3 RATE (b)	0/8.00	3/7.00	3/8.00	6/8.00
POLY-3 PERCENT (g)	0%	42.9%	37.5%	75%
INT SACRIFICE 1	0/8 (0%)	3/7 (43%)	3/8 (38%)	6/8 (75%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (I)	180 (I)	180 (I)
STATISTICAL TESTS				
POLY 3	P=0.002**	P=0.058	P=0.086	P<0.001**
POLY 1.5	P=0.002**	P=0.058	P=0.086	P<0.001**
POLY 6	P=0.002**	P=0.058	P=0.086	P<0.001**
COCH-ARM / FISHERS	P=0.004**	P=0.077	P=0.100	P=0.003**
MAX-ISO-POLY-3	P<0.001**	P=0.014*	P=0.020*	P<0.001**

Experiment Number: 20536 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (specular hematite)
 CAS Number: HEMATITESPEC

Date Report Requested: 09/13/2012
 Time Report Requested: 10:28:08
 First Dose M/F: 07/27/09 / NA
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lymph Node, Mediastinal Infiltration Cellular Histiocyte				
LESION RATES				
OVERALL (a)	0/8 (0%)	5/7 (71%)	7/8 (88%)	7/8 (88%)
POLY-3 RATE (b)	0/8.00	5/7.00	7/8.00	7/8.00
POLY-3 PERCENT (g)	0%	71.4%	87.5%	87.5%
INT SACRIFICE 1	0/8 (0%)	5/7 (71%)	7/8 (88%)	7/8 (88%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (I)	180 (I)	180 (I)
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.007**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20536 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (specular hematite)
 CAS Number: HEMATITESPEC

Date Report Requested: 09/13/2012
 Time Report Requested: 10:28:08
 First Dose M/F: 07/27/09 / NA
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lymph Node, Mediastinal Pigmentation Hemosiderin				
LESION RATES				
OVERALL (a)	2/8 (25%)	0/7 (0%)	1/8 (13%)	0/8 (0%)
POLY-3 RATE (b)	2/8.00	0/7.00	1/8.00	0/8.00
POLY-3 PERCENT (g)	25%	0%	12.5%	0%
INT SACRIFICE 1	2/8 (25%)	0/7 (0%)	1/8 (13%)	0/8 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	180 (I)	---	180 (I)	---
STATISTICAL TESTS				
POLY 3	P=0.175N	P=0.255N	P=0.500N	P=0.223N
POLY 1.5	P=0.175N	P=0.255N	P=0.500N	P=0.223N
POLY 6	P=0.175N	P=0.255N	P=0.500N	P=0.223N
COCH-ARM / FISHERS	P=0.174N	P=0.267N	P=0.500N	P=0.233N
MAX-ISO-POLY-3	P=0.071N	P=0.084N	P=0.272N	P=0.063N

Experiment Number: 20536 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (specular hematite)
 CAS Number: HEMATITESPEC

Date Report Requested: 09/13/2012
 Time Report Requested: 10:28:08
 First Dose M/F: 07/27/09 / NA
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Nose				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/8 (0%)	0/8 (0%)	1/8 (13%)	0/8 (0%)
POLY-3 RATE (b)	0/8.00	0/8.00	1/8.00	0/8.00
POLY-3 PERCENT (g)	0%	0%	12.5%	0%
INT SACRIFICE 1	0/8 (0%)	0/8 (0%)	1/8 (13%)	0/8 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	180 (l)	---
STATISTICAL TESTS				
POLY 3	P=0.680	(e)	P=0.500	(e)
POLY 1.5	P=0.680	(e)	P=0.500	(e)
POLY 6	P=0.680	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.683	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.388	(e)	P=0.159	(e)

Experiment Number: 20536 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (specular hematite)
 CAS Number: HEMATITESPEC

Date Report Requested: 09/13/2012
 Time Report Requested: 10:28:08
 First Dose M/F: 07/27/09 / NA
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Nose: Goblet Cell Hyperplasia				
LESION RATES				
OVERALL (a)	0/8 (0%)	0/8 (0%)	0/8 (0%)	1/8 (13%)
POLY-3 RATE (b)	0/8.00	0/8.00	0/8.00	1/8.00
POLY-3 PERCENT (g)	0%	0%	0%	12.5%
INT SACRIFICE 1	0/8 (0%)	0/8 (0%)	0/8 (0%)	1/8 (13%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	180 (l)
STATISTICAL TESTS				
POLY 3	P=0.197	(e)	(e)	P=0.500
POLY 1.5	P=0.197	(e)	(e)	P=0.500
POLY 6	P=0.197	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.193	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.124	(e)	(e)	P=0.159

Experiment Number: 20536 - 02
Test Type: 39-WEEK
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Abrasive blasting agents (specular hematite)
CAS Number: HEMATITESPEC

Date Report Requested: 09/13/2012
Time Report Requested: 10:28:08
First Dose M/F: 07/27/09 / NA
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Nose: Olfactory Epithelium Accumulation, Hyaline Droplet				
LESION RATES				
OVERALL (a)	8/8 (100%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
POLY-3 RATE (b)	8/8.00	8/8.00	8/8.00	8/8.00
POLY-3 PERCENT (g)	100%	100%	100%	100%
INT SACRIFICE 1	8/8 (100%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	180 (I)	180 (I)	180 (I)	180 (I)
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

Experiment Number: 20536 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (specular hematite)
 CAS Number: HEMATITESPEC

Date Report Requested: 09/13/2012
 Time Report Requested: 10:28:08
 First Dose M/F: 07/27/09 / NA
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Nose: Olfactory Epithelium Metaplasia Respiratory				
LESION RATES				
OVERALL (a)	0/8 (0%)	0/8 (0%)	1/8 (13%)	0/8 (0%)
POLY-3 RATE (b)	0/8.00	0/8.00	1/8.00	0/8.00
POLY-3 PERCENT (g)	0%	0%	12.5%	0%
INT SACRIFICE 1	0/8 (0%)	0/8 (0%)	1/8 (13%)	0/8 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	180 (l)	---
STATISTICAL TESTS				
POLY 3	P=0.680	(e)	P=0.500	(e)
POLY 1.5	P=0.680	(e)	P=0.500	(e)
POLY 6	P=0.680	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.683	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.388	(e)	P=0.159	(e)

Experiment Number: 20536 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (specular hematite)
 CAS Number: HEMATITESPEC

Date Report Requested: 09/13/2012
 Time Report Requested: 10:28:08
 First Dose M/F: 07/27/09 / NA
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Nose: Respiratory Epithelium Accumulation, Hyaline Droplet				
LESION RATES				
OVERALL (a)	2/8 (25%)	2/8 (25%)	3/8 (38%)	5/8 (63%)
POLY-3 RATE (b)	2/8.00	2/8.00	3/8.00	5/8.00
POLY-3 PERCENT (g)	25%	25%	37.5%	62.5%
INT SACRIFICE 1	2/8 (25%)	2/8 (25%)	3/8 (38%)	5/8 (63%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	180 (I)	180 (I)	180 (I)	180 (I)
STATISTICAL TESTS				
POLY 3	P=0.071	P=0.705	P=0.500	P=0.154
POLY 1.5	P=0.071	P=0.705	P=0.500	P=0.154
POLY 6	P=0.071	P=0.705	P=0.500	P=0.154
COCH-ARM / FISHERS	P=0.069	P=0.715N	P=0.500	P=0.157
MAX-ISO-POLY-3	P=0.099	P=1.000	P=0.305	P=0.063

Experiment Number: 20536 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (specular hematite)
 CAS Number: HEMATITESPEC

Date Report Requested: 09/13/2012
 Time Report Requested: 10:28:08
 First Dose M/F: 07/27/09 / NA
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Skin				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	1/1.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	100%	0%	0%
INT SACRIFICE 1	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (l)	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

Experiment Number: 20536 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (specular hematite)
 CAS Number: HEMATITESPEC

Date Report Requested: 09/13/2012
 Time Report Requested: 10:28:08
 First Dose M/F: 07/27/09 / NA
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Trachea				
Foreign Body				
LESION RATES				
OVERALL (a)	0/8 (0%)	1/8 (13%)	3/8 (38%)	1/8 (13%)
POLY-3 RATE (b)	0/8.00	1/8.00	3/8.00	1/8.00
POLY-3 PERCENT (g)	0%	12.5%	37.5%	12.5%
INT SACRIFICE 1	0/8 (0%)	1/8 (13%)	3/8 (38%)	1/8 (13%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (I)	180 (I)	180 (I)
STATISTICAL TESTS				
POLY 3	P=0.328	P=0.500	P=0.086	P=0.500
POLY 1.5	P=0.328	P=0.500	P=0.086	P=0.500
POLY 6	P=0.328	P=0.500	P=0.086	P=0.500
COCH-ARM / FISHERS	P=0.329	P=0.500	P=0.100	P=0.500
MAX-ISO-POLY-3	P=0.130	P=0.159	P=0.020*	P=0.159

Experiment Number: 20536 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

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 Abrasive blasting agents (specular hematite)
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Trachea				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	1/8 (13%)	1/8 (13%)	3/8 (38%)	1/8 (13%)
POLY-3 RATE (b)	1/8.00	1/8.00	3/8.00	1/8.00
POLY-3 PERCENT (g)	12.5%	12.5%	37.5%	12.5%
INT SACRIFICE 1	1/8 (13%)	1/8 (13%)	3/8 (38%)	1/8 (13%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	180 (I)	180 (I)	180 (I)	180 (I)
STATISTICAL TESTS				
POLY 3	P=0.548	P=0.760	P=0.286	P=0.760
POLY 1.5	P=0.548	P=0.760	P=0.286	P=0.760
POLY 6	P=0.548	P=0.760	P=0.286	P=0.760
COCH-ARM / FISHERS	P=0.550	P=0.767N	P=0.285	P=0.767N
MAX-ISO-POLY-3	P=0.429	P=1.000	P=0.130	P=1.000

Experiment Number: 20536 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (specular hematite)
 CAS Number: HEMATITESPEC

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Trachea				
Metaplasia Osseous				
LESION RATES				
OVERALL (a)	0/8 (0%)	0/8 (0%)	1/8 (13%)	0/8 (0%)
POLY-3 RATE (b)	0/8.00	0/8.00	1/8.00	0/8.00
POLY-3 PERCENT (g)	0%	0%	12.5%	0%
INT SACRIFICE 1	0/8 (0%)	0/8 (0%)	1/8 (13%)	0/8 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	180 (l)	---
STATISTICAL TESTS				
POLY 3	P=0.680	(e)	P=0.500	(e)
POLY 1.5	P=0.680	(e)	P=0.500	(e)
POLY 6	P=0.680	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.683	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.388	(e)	P=0.159	(e)

Experiment Number: 20536 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (specular hematite)
 CAS Number: HEMATITESPEC

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 26 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Trachea: Glands Inflammation				
LESION RATES				
OVERALL (a)	0/8 (0%)	1/8 (13%)	0/8 (0%)	0/8 (0%)
POLY-3 RATE (b)	0/8.00	1/8.00	0/8.00	0/8.00
POLY-3 PERCENT (g)	0%	12.5%	0%	0%
INT SACRIFICE 1	0/8 (0%)	1/8 (13%)	0/8 (0%)	0/8 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	180 (l)	---	---
STATISTICAL TESTS				
POLY 3	P=0.555N	P=0.500	(e)	(e)
POLY 1.5	P=0.555N	P=0.500	(e)	(e)
POLY 6	P=0.555N	P=0.500	(e)	(e)
COCH-ARM / FISHERS	P=0.556N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.388N	P=0.159	(e)	(e)

Experiment Number: 20536 - 02
Test Type: 39-WEEK
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Abrasive blasting agents (specular hematite)
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LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) Number of tumor-bearing animals/Poly-3 number
 - (d) Observed incidence at terminal kill.
 - (e) Value of statistic cannot be computed.
 - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (n) No statistics are calculated if all dose groups have fewer than two tumors.
 - (I) Interim sacrifice
 - (T) Terminal sacrifice
 - # Tumor rates based on numbers of animals necropsied.
 - * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
 - ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
 - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***