

**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:** 10:34:30  
**First Dose M/F:** 07/27/09 / NA  
**Lab:** BNW

F1\_Rev.1\_39 Wk Core\_HSD

<b>NTP Study Number:</b>	C20536	
<b>Lock Date:</b>	07/19/2010	
<b>Cage Range:</b>	ALL	
<b>Date Range:</b>	ALL	
<b>Reasons For Removal:</b>	25021 TSAC	25019 MSAC
<b>Removal Date Range:</b>	ALL	
<b>Treatment Groups:</b>	Include ALL	
<b>Study Gender:</b>	Male	
<b>TDMSE Version:</b>	2.6.0.0_007	
<b>PWG Approval Date:</b>	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  
  
Nose: Respiratory Epithelium

**Morphology**

Foreign Body  
Metaplasia  
Foreign Body  
Infiltration Cellular Histiocyte  
Inflammation Chronic  
Hyperplasia  
Fibrosis  
Foreign Body  
Hyperplasia  
Infiltration Cellular Histiocyte  
Pigmentation Hemosiderin  
Foreign Body  
Hyperplasia  
Infiltration Cellular Histiocyte  
Accumulation, Hyaline Droplet

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Kidney</b>				
<b>Nephropathy</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/0 (0%)	0/0 (0%)	1/1 (100%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	1/1.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	100%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	1/1 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	271 (T)	---
<b>STATISTICAL TESTS</b>				
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)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Larynx				
Foreign Body				
<b>LESION RATES</b>				
OVERALL (a)	0/9 (0%)	8/8 (100%)	8/8 (100%)	9/9 (100%)
POLY-3 RATE (b)	0/8.81	8/8.00	8/8.00	9/9.00
POLY-3 PERCENT (g)	0%	100%	100%	100%
TERMINAL (d)	0/8 (0%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
FIRST INCIDENCE	---	271 (T)	271 (T)	253
<b>STATISTICAL TESTS</b>				
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	P<0.001**	P<0.001**	P<0.001**	P<0.001**

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 39 WEEKS**

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DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Larynx Ulcer				
<b>LESION RATES</b>				
OVERALL (a)	0/9 (0%)	0/8 (0%)	0/8 (0%)	1/9 (11%)
POLY-3 RATE (b)	0/8.81	0/8.00	0/8.00	1/8.81
POLY-3 PERCENT (g)	0%	0%	0%	11.4%
TERMINAL (d)	0/8 (0%)	0/8 (0%)	0/8 (0%)	1/8 (13%)
FIRST INCIDENCE	---	---	---	271 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.205	(e)	(e)	P=0.500
POLY 1.5	P=0.205	(e)	(e)	P=0.500
POLY 6	P=0.204	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.202	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.085	(e)	(e)	P=0.158

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Larynx: Epiglottis Metaplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/9 (0%)	5/8 (63%)	7/8 (88%)	7/9 (78%)
POLY-3 RATE (b)	0/8.81	5/8.00	7/8.00	7/9.00
POLY-3 PERCENT (g)	0%	62.5%	87.5%	77.8%
TERMINAL (d)	0/8 (0%)	5/8 (63%)	7/8 (88%)	6/8 (75%)
FIRST INCIDENCE	---	271 (T)	271 (T)	253
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.002**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.002**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.002**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.002**	P=0.009**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Larynx: Glands Concretion</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/9 (0%)	1/8 (13%)	0/8 (0%)	0/9 (0%)
POLY-3 RATE (b)	0/8.81	1/8.00	0/8.00	0/8.81
POLY-3 PERCENT (g)	0%	12.5%	0%	0%
TERMINAL (d)	0/8 (0%)	1/8 (13%)	0/8 (0%)	0/8 (0%)
FIRST INCIDENCE	---	271 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.546N	P=0.481	(e)	(e)
POLY 1.5	P=0.548N	P=0.479	(e)	(e)
POLY 6	P=0.543N	P=0.484	(e)	(e)
COCH-ARM / FISHERS	P=0.550N	P=0.471	(e)	(e)
MAX-ISO-POLY-3	P=0.234N	P=0.149	(e)	(e)

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 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Larynx: Glands Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/9 (11%)	0/8 (0%)	0/8 (0%)	0/9 (0%)
POLY-3 RATE (b)	1/8.81	0/8.00	0/8.00	0/8.81
POLY-3 PERCENT (g)	11.4%	0%	0%	0%
TERMINAL (d)	1/8 (13%)	0/8 (0%)	0/8 (0%)	0/8 (0%)
FIRST INCIDENCE	271 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.303N	P=0.519N	P=0.519N	P=0.500N
POLY 1.5	P=0.303N	P=0.521N	P=0.521N	P=0.500N
POLY 6	P=0.303N	P=0.516N	P=0.516N	P=0.500N
COCH-ARM / FISHERS	P=0.299N	P=0.529N	P=0.529N	P=0.500N
MAX-ISO-POLY-3	P=0.085N	P=0.175N	P=0.175N	P=0.158N



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 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Larynx: Glands</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/9 (0%)	0/8 (0%)	1/8 (13%)	0/9 (0%)
POLY-3 RATE (b)	0/8.81	0/8.00	1/8.00	0/8.81
POLY-3 PERCENT (g)	0%	0%	12.5%	0%
TERMINAL (d)	0/8 (0%)	0/8 (0%)	1/8 (13%)	0/8 (0%)
FIRST INCIDENCE	---	---	271 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.677	(e)	P=0.481	(e)
POLY 1.5	P=0.678	(e)	P=0.479	(e)
POLY 6	P=0.674	(e)	P=0.484	(e)
COCH-ARM / FISHERS	P=0.682	(e)	P=0.471	(e)
MAX-ISO-POLY-3	P=0.234	(e)	P=0.149	(e)

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 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Liver Degeneration</b>				
<b>LESION RATES</b>				
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%
TERMINAL (d)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	271 (T)	---	---
<b>STATISTICAL TESTS</b>				
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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 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lung</b>				
<b>Atelectasis Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/9 (0%)	0/8 (0%)	0/8 (0%)	1/9 (11%)
POLY-3 RATE (b)	0/8.81	0/8.00	0/8.00	1/8.81
POLY-3 PERCENT (g)	0%	0%	0%	11.4%
TERMINAL (d)	0/8 (0%)	0/8 (0%)	0/8 (0%)	1/8 (13%)
FIRST INCIDENCE	---	---	---	271 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.205	(e)	(e)	P=0.500
POLY 1.5	P=0.205	(e)	(e)	P=0.500
POLY 6	P=0.204	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.202	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.085	(e)	(e)	P=0.158

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 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lung</b>				
<b>Foreign Body</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/9 (0%)	8/8 (100%)	8/8 (100%)	9/9 (100%)
POLY-3 RATE (b)	0/8.81	8/8.00	8/8.00	9/9.00
POLY-3 PERCENT (g)	0%	100%	100%	100%
TERMINAL (d)	0/8 (0%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
FIRST INCIDENCE	---	271 (T)	271 (T)	253
<b>STATISTICAL TESTS</b>				
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	P<0.001**	P<0.001**	P<0.001**	P<0.001**

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 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lung</b>				
<b>Infiltration Cellular</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/9 (11%)	0/8 (0%)	0/8 (0%)	0/9 (0%)
POLY-3 RATE (b)	1/9.00	0/8.00	0/8.00	0/8.81
POLY-3 PERCENT (g)	11.1%	0%	0%	0%
TERMINAL (d)	0/8 (0%)	0/8 (0%)	0/8 (0%)	0/8 (0%)
FIRST INCIDENCE	253	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.300N	P=0.523N	P=0.523N	P=0.504N
POLY 1.5	P=0.301N	P=0.523N	P=0.523N	P=0.502N
POLY 6	P=0.299N	P=0.523N	P=0.523N	P=0.508N
COCH-ARM / FISHERS	P=0.299N	P=0.529N	P=0.529N	P=0.500N
MAX-ISO-POLY-3	P=0.089N	P=0.180N	P=0.180N	P=0.163N

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 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lung</b>				
<b>Infiltration Cellular Histiocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/9 (44%)	8/8 (100%)	8/8 (100%)	8/9 (89%)
POLY-3 RATE (b)	4/8.81	8/8.00	8/8.00	8/8.81
POLY-3 PERCENT (g)	45.4%	100%	100%	90.8%
TERMINAL (d)	4/8 (50%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
FIRST INCIDENCE	271 (T)	271 (T)	271 (T)	271 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.017*	P=0.010**	P=0.010**	P=0.046*
POLY 1.5	P=0.020*	P=0.010**	P=0.010**	P=0.050*
POLY 6	P=0.012*	P=0.011*	P=0.011*	P=0.039*
COCH-ARM / FISHERS	P=0.048*	P=0.020*	P=0.020*	P=0.066
MAX-ISO-POLY-3	P<0.001**	P=0.002**	P=0.002**	P=0.012*

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DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lung</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/9 (0%)	3/8 (38%)	2/8 (25%)	7/9 (78%)
POLY-3 RATE (b)	0/8.81	3/8.00	2/8.00	7/9.00
POLY-3 PERCENT (g)	0%	37.5%	25%	77.8%
TERMINAL (d)	0/8 (0%)	3/8 (38%)	2/8 (25%)	6/8 (75%)
FIRST INCIDENCE	---	271 (T)	271 (T)	253
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.070	P=0.200	P<0.001**
POLY 1.5	P<0.001**	P=0.069	P=0.198	P<0.001**
POLY 6	P<0.001**	P=0.073	P=0.204	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.082	P=0.206	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.017*	P=0.056	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: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lung Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/9 (11%)	0/8 (0%)	0/8 (0%)	0/9 (0%)
POLY-3 RATE (b)	1/9.00	0/8.00	0/8.00	0/8.81
POLY-3 PERCENT (g)	11.1%	0%	0%	0%
TERMINAL (d)	0/8 (0%)	0/8 (0%)	0/8 (0%)	0/8 (0%)
FIRST INCIDENCE	253	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.300N	P=0.523N	P=0.523N	P=0.504N
POLY 1.5	P=0.301N	P=0.523N	P=0.523N	P=0.502N
POLY 6	P=0.299N	P=0.523N	P=0.523N	P=0.508N
COCH-ARM / FISHERS	P=0.299N	P=0.529N	P=0.529N	P=0.500N
MAX-ISO-POLY-3	P=0.089N	P=0.180N	P=0.180N	P=0.163N



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: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lung: Alveolar Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/9 (22%)	8/8 (100%)	8/8 (100%)	9/9 (100%)
POLY-3 RATE (b)	2/9.00	8/8.00	8/8.00	9/9.00
POLY-3 PERCENT (g)	22.2%	100%	100%	100%
TERMINAL (d)	1/8 (13%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
FIRST INCIDENCE	253	271 (T)	271 (T)	253
<b>STATISTICAL TESTS</b>				
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=0.002**	P=0.002**	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: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lung: Bronchiole Hypertrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/9 (11%)	0/8 (0%)	0/8 (0%)	0/9 (0%)
POLY-3 RATE (b)	1/9.00	0/8.00	0/8.00	0/8.81
POLY-3 PERCENT (g)	11.1%	0%	0%	0%
TERMINAL (d)	0/8 (0%)	0/8 (0%)	0/8 (0%)	0/8 (0%)
FIRST INCIDENCE	253	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.300N	P=0.523N	P=0.523N	P=0.504N
POLY 1.5	P=0.301N	P=0.523N	P=0.523N	P=0.502N
POLY 6	P=0.299N	P=0.523N	P=0.523N	P=0.508N
COCH-ARM / FISHERS	P=0.299N	P=0.529N	P=0.529N	P=0.500N
MAX-ISO-POLY-3	P=0.089N	P=0.180N	P=0.180N	P=0.163N

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: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lung: Interstitium Fibrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/9 (11%)	2/8 (25%)	8/8 (100%)	9/9 (100%)
POLY-3 RATE (b)	1/9.00	2/8.00	8/8.00	9/9.00
POLY-3 PERCENT (g)	11.1%	25%	100%	100%
TERMINAL (d)	0/8 (0%)	2/8 (25%)	8/8 (100%)	8/8 (100%)
FIRST INCIDENCE	253	271 (T)	271 (T)	253
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.457	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.457	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.457	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.453	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.243	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: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lymph Node Congestion</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/0 (0%)	0/1 (0%)	0/2 (0%)	1/1 (100%)
POLY-3 RATE (b)	0/0.00	0/1.00	0/2.00	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	100%
TERMINAL (d)	0/0 (0%)	0/1 (0%)	0/2 (0%)	1/1 (100%)
FIRST INCIDENCE	---	---	---	271 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.212	(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: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lymph Node, Bronchial Foreign Body</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/5 (0%)	5/7 (71%)	7/8 (88%)	7/8 (88%)
POLY-3 RATE (b)	0/5.00	5/7.00	7/8.00	7/8.00
POLY-3 PERCENT (g)	0%	71.4%	87.5%	87.5%
TERMINAL (d)	0/5 (0%)	5/7 (71%)	7/8 (88%)	7/8 (88%)
FIRST INCIDENCE	---	271 (T)	271 (T)	271 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.007**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.007**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.007**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.007**	P=0.027*	P=0.005**	P=0.005**
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: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lymph Node, Bronchial Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/5 (0%)	1/7 (14%)	3/8 (38%)	4/8 (50%)
POLY-3 RATE (b)	0/5.00	1/7.00	3/8.00	4/8.00
POLY-3 PERCENT (g)	0%	14.3%	37.5%	50%
TERMINAL (d)	0/5 (0%)	1/7 (14%)	3/8 (38%)	4/8 (50%)
FIRST INCIDENCE	---	271 (T)	271 (T)	271 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.032*	P=0.566	P=0.183	P=0.083
POLY 1.5	P=0.032*	P=0.566	P=0.183	P=0.083
POLY 6	P=0.032*	P=0.566	P=0.183	P=0.083
COCH-ARM / FISHERS	P=0.034*	P=0.583	P=0.196	P=0.098
MAX-ISO-POLY-3	P=0.031*	P=0.220	P=0.075	P=0.032*

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: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lymph Node, Bronchial Infiltration Cellular Histiocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/5 (0%)	5/7 (71%)	7/8 (88%)	7/8 (88%)
POLY-3 RATE (b)	0/5.00	5/7.00	7/8.00	7/8.00
POLY-3 PERCENT (g)	0%	71.4%	87.5%	87.5%
TERMINAL (d)	0/5 (0%)	5/7 (71%)	7/8 (88%)	7/8 (88%)
FIRST INCIDENCE	---	271 (T)	271 (T)	271 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.007**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.007**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.007**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.007**	P=0.027*	P=0.005**	P=0.005**
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: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lymph Node, Bronchial Pigmentation Hemosiderin</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/5 (60%)	1/7 (14%)	0/8 (0%)	0/8 (0%)
POLY-3 RATE (b)	3/5.00	1/7.00	0/8.00	0/8.00
POLY-3 PERCENT (g)	60%	14.3%	0%	0%
TERMINAL (d)	3/5 (60%)	1/7 (14%)	0/8 (0%)	0/8 (0%)
FIRST INCIDENCE	271 (T)	271 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.004N**	P=0.141N	P=0.010N**	P=0.010N**
POLY 1.5	P=0.004N**	P=0.141N	P=0.010N**	P=0.010N**
POLY 6	P=0.004N**	P=0.141N	P=0.010N**	P=0.010N**
COCH-ARM / FISHERS	P=0.014N*	P=0.152N	P=0.035N*	P=0.035N*
MAX-ISO-POLY-3	P<0.001N**	P=0.055N	P=0.002N**	P=0.002N**



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: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lymph Node, Mediastinal Foreign Body</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/9 (0%)	7/8 (88%)	6/7 (86%)	9/9 (100%)
POLY-3 RATE (b)	0/8.81	7/8.00	6/7.00	9/9.00
POLY-3 PERCENT (g)	0%	87.5%	85.7%	100%
TERMINAL (d)	0/8 (0%)	7/8 (88%)	6/7 (86%)	8/8 (100%)
FIRST INCIDENCE	---	271 (T)	271 (T)	253
<b>STATISTICAL TESTS</b>				
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	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: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lymph Node, Mediastinal Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/9 (0%)	3/8 (38%)	4/7 (57%)	7/9 (78%)
POLY-3 RATE (b)	0/8.81	3/8.00	4/7.00	7/8.81
POLY-3 PERCENT (g)	0%	37.5%	57.1%	79.4%
TERMINAL (d)	0/8 (0%)	3/8 (38%)	4/7 (57%)	7/8 (88%)
FIRST INCIDENCE	---	271 (T)	271 (T)	271 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.070	P=0.006**	P<0.001**
POLY 1.5	P<0.001**	P=0.069	P=0.006**	P<0.001**
POLY 6	P<0.001**	P=0.073	P=0.007**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.082	P=0.019*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.017*	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: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lymph Node, Mediastinal Infiltration Cellular Histiocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/9 (0%)	7/8 (88%)	6/7 (86%)	9/9 (100%)
POLY-3 RATE (b)	0/8.81	7/8.00	6/7.00	9/9.00
POLY-3 PERCENT (g)	0%	87.5%	85.7%	100%
TERMINAL (d)	0/8 (0%)	7/8 (88%)	6/7 (86%)	8/8 (100%)
FIRST INCIDENCE	---	271 (T)	271 (T)	253
<b>STATISTICAL TESTS</b>				
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	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: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lymph Node, Mediastinal Pigmentation Hemosiderin</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/9 (11%)	1/8 (13%)	0/7 (0%)	1/9 (11%)
POLY-3 RATE (b)	1/8.81	1/8.00	0/7.00	1/8.81
POLY-3 PERCENT (g)	11.4%	12.5%	0%	11.4%
TERMINAL (d)	1/8 (13%)	1/8 (13%)	0/7 (0%)	1/8 (13%)
FIRST INCIDENCE	271 (T)	271 (T)	---	271 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.599N	P=0.739	P=0.546N	P=0.761
POLY 1.5	P=0.599N	P=0.737	P=0.548N	P=0.761
POLY 6	P=0.599N	P=0.743	P=0.542N	P=0.761
COCH-ARM / FISHERS	P=0.605N	P=0.735	P=0.563N	P=0.765N
MAX-ISO-POLY-3	P=0.348N	P=0.471	P=0.199N	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

Date Report Requested: 09/13/2012  
 Time Report Requested: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lymph Node: Pancreatic Congestion</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/0 (0%)	1/1 (100%)	2/2 (100%)	0/1 (0%)
POLY-3 RATE (b)	0/0.00	1/1.00	2/2.00	0/1.00
POLY-3 PERCENT (g)	0%	100%	100%	0%
TERMINAL (d)	0/0 (0%)	1/1 (100%)	2/2 (100%)	0/1 (0%)
FIRST INCIDENCE	---	271 (T)	271 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.212N	(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: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Lymph Node: Renal Congestion</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/0 (0%)	1/1 (100%)	0/2 (0%)	0/1 (0%)
POLY-3 RATE (b)	0/0.00	1/1.00	0/2.00	0/1.00
POLY-3 PERCENT (g)	0%	100%	0%	0%
TERMINAL (d)	0/0 (0%)	1/1 (100%)	0/2 (0%)	0/1 (0%)
FIRST INCIDENCE	---	271 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.373N	(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: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Nose</b>				
Accumulation, Hyaline Droplet				
<b>LESION RATES</b>				
OVERALL (a)	1/9 (11%)	0/8 (0%)	0/8 (0%)	1/9 (11%)
POLY-3 RATE (b)	1/9.00	0/8.00	0/8.00	1/9.00
POLY-3 PERCENT (g)	11.1%	0%	0%	11.1%
TERMINAL (d)	0/8 (0%)	0/8 (0%)	0/8 (0%)	0/8 (0%)
FIRST INCIDENCE	253	---	---	253
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.595	P=0.523N	P=0.523N	P=0.760
POLY 1.5	P=0.595	P=0.523N	P=0.523N	P=0.760
POLY 6	P=0.595	P=0.523N	P=0.523N	P=0.760
COCH-ARM / FISHERS	P=0.598	P=0.529N	P=0.529N	P=0.765N
MAX-ISO-POLY-3	P=0.268N	P=0.180N	P=0.180N	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

Date Report Requested: 09/13/2012  
 Time Report Requested: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Nose: Olfactory Epithelium Accumulation, Hyaline Droplet</b>				
<b>LESION RATES</b>				
OVERALL (a)	8/9 (89%)	8/8 (100%)	8/8 (100%)	8/9 (89%)
POLY-3 RATE (b)	8/8.81	8/8.00	8/8.00	8/8.81
POLY-3 PERCENT (g)	90.8%	100%	100%	90.8%
TERMINAL (d)	8/8 (100%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
FIRST INCIDENCE	271 (T)	271 (T)	271 (T)	271 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.631N	P=0.608	P=0.608	P=0.803
POLY 1.5	P=0.612N	P=0.564	P=0.564	P=0.781
POLY 6	P=0.673N	P=0.705	P=0.705	P=0.848
COCH-ARM / FISHERS	P=0.598N	P=0.529	P=0.529	P=0.765N
MAX-ISO-POLY-3	P=0.268	P=0.178	P=0.178	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

Date Report Requested: 09/13/2012  
 Time Report Requested: 10:34:30  
 First Dose M/F: 07/27/09 / NA  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 39 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
<b>Nose: Respiratory Epithelium Accumulation, Hyaline Droplet</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/9 (0%)	0/8 (0%)	3/8 (38%)	3/9 (33%)
POLY-3 RATE (b)	0/8.81	0/8.00	3/8.00	3/8.81
POLY-3 PERCENT (g)	0%	0%	37.5%	34%
TERMINAL (d)	0/8 (0%)	0/8 (0%)	3/8 (38%)	3/8 (38%)
FIRST INCIDENCE	---	---	271 (T)	271 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.019*	(e)	P=0.070	P=0.090
POLY 1.5	P=0.020*	(e)	P=0.069	P=0.091
POLY 6	P=0.019*	(e)	P=0.073	P=0.089
COCH-ARM / FISHERS	P=0.027*	(e)	P=0.082	P=0.103
MAX-ISO-POLY-3	P=0.019*	(e)	P=0.017*	P=0.022*

**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:** 10:34:30

**First Dose M/F:** 07/27/09 / NA

**Lab:** BNW

**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 \*\*\*