Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

NTP Study Number: C20534

Lock Date: 07/19/2010

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Abrasive blasting agents (crushed glass)

CAS Number: CRUSHEDGLASS

l ah: F

Date Report Requested: 04/05/2018 Time Report Requested: 14:36:02 First Dose M/F: 06/12/06 / NA

Lab: BNW

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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Date Report Requested: 04/05/2018 Time Report Requested: 14:36:02 First Dose M/F: 06/12/06 / NA

Lab: BNW

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

MALE RATS

Organ	worpholog
Larynx: Epiglottis	Hyperplasia
	Inflammation
	Metaplasia
Nose: Goblet Cell	Hypertrophy

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

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P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Abrasive blasting agents (crushed glass) **CAS Number: CRUSHEDGLASS**

Date Report Requested: 04/05/2018 Time Report Requested: 14:36:02 First Dose M/F: 06/12/06 / NA

Lab: BNW

Males					
DOSE	vehicle control	3 mg/m3	15 mg/m3	30 mg/m3	
Larynx: Epiglottis Hyperplasia					
LESION RATES					
OVERALL (a)	0/5 (0%)	1/5 (20%)	5/5 (100%)	5/5 (100%)	
POLY-3 RATE (b)	0/5.00	1/5.00	5/5.00	5/5.00	
POLY-3 PERCENT (g)	0%	20%	100%	100%	
TERMINAL (d)	0/5 (0%)	1/5 (20%)	5/5 (100%)	5/5 (100%)	
FIRST INCIDENCE		16 (T)	16 (T)	16 (T)	
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.500	P=0.004**	P=0.004**	
POLY 1.5	P<0.001**	P=0.500	P=0.004**	P=0.004**	
POLY 6	P<0.001**	P=0.500	P=0.004**	P=0.004**	
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.004**	P=0.004**	
MAX-ISO-POLY-3	P<0.001**	P=0.159	(e)	(e)	

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Abrasive blasting agents (crushed glass)

CAS Number: CRUSHEDGLASS

Date Report Requested: 04/05/2018 Time Report Requested: 14:36:02 First Dose M/F: 06/12/06 / NA

Lab: BNW

		·	Males	•	·
DOSE	vehicle control	3 mg/m3	15 mg/m3	30 mg/m3	
Larynx: Epiglottis Inflammation					
LESION RATES					
OVERALL (a)	0/5 (0%)	1/5 (20%)	5/5 (100%)	5/5 (100%)	
POLY-3 RATE (b)	0/5.00	1/5.00	5/5.00	5/5.00	
POLY-3 PERCENT (g)	0%	20%	100%	100%	
TERMINAL (d)	0/5 (0%)	1/5 (20%)	5/5 (100%)	5/5 (100%)	
FIRST INCIDENCE		16 (T)	16 (T)	16 (T)	
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.500	P=0.004**	P=0.004**	
POLY 1.5	P<0.001**	P=0.500	P=0.004**	P=0.004**	
POLY 6	P<0.001**	P=0.500	P=0.004**	P=0.004**	
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.004**	P=0.004**	
MAX-ISO-POLY-3	P<0.001**	P=0.159	(e)	(e)	

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Abrasive blasting agents (crushed glass) **CAS Number: CRUSHEDGLASS**

Date Report Requested: 04/05/2018 Time Report Requested: 14:36:02 First Dose M/F: 06/12/06 / NA

Lab: BNW

			Males		
DOSE	vehicle control	3 mg/m3	15 mg/m3	30 mg/m3	
Larynx: Epiglottis Metaplasia					
LESION RATES					
OVERALL (a)	0/5 (0%)	0/5 (0%)	5/5 (100%)	5/5 (100%)	
POLY-3 RATE (b)	0/5.00	0/5.00	5/5.00	5/5.00	
POLY-3 PERCENT (g)	0%	0%	100%	100%	
TERMINAL (d)	0/5 (0%)	0/5 (0%)	5/5 (100%)	5/5 (100%)	
FIRST INCIDENCE			16 (T)	16 (T)	
STATISTICAL TESTS					
POLY 3	P<0.001**	(e)	P=0.004**	P=0.004**	
POLY 1.5	P<0.001**	(e)	P=0.004**	P=0.004**	
POLY 6	P<0.001**	(e)	P=0.004**	P=0.004**	
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.004**	P=0.004**	
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Abrasive blasting agents (crushed glass) **CAS Number: CRUSHEDGLASS**

Date Report Requested: 04/05/2018 Time Report Requested: 14:36:02 First Dose M/F: 06/12/06 / NA

Lab: BNW

Males					
DOSE	vehicle control	3 mg/m3	15 mg/m3	30 mg/m3	
Liver Hepatodiaphragmatic Nodu	le				
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%	
TERMINAL (d)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	
FIRST INCIDENCE		16 (T)			
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)	

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

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P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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CAS Number: CRUSHEDGLASS

Date Report Requested: 04/05/2018 Time Report Requested: 14:36:02 First Dose M/F: 06/12/06 / NA

Lab: BNW

			Males		
DOSE	vehicle control	3 mg/m3	15 mg/m3	30 mg/m3	
Nose: Goblet Cell Hypertrophy					
LESION RATES					
OVERALL (a)	1/5 (20%)	4/5 (80%)	5/5 (100%)	5/5 (100%)	
POLY-3 RATE (b)	1/5.00	4/5.00	5/5.00	5/5.00	
POLY-3 PERCENT (g)	20%	80%	100%	100%	
TERMINAL (d)	1/5 (20%)	4/5 (80%)	5/5 (100%)	5/5 (100%)	
FIRST INCIDENCE	16 (T)	16 (T)	16 (T)	16 (T)	
STATISTICAL TESTS					
POLY 3	P=0.002**	P=0.079	P<0.001**	P<0.001**	
POLY 1.5	P=0.002**	P=0.079	P<0.001**	P<0.001**	
POLY 6	P=0.002**	P=0.079	P<0.001**	P<0.001**	
COCH-ARM / FISHERS	P=0.015*	P=0.103	P=0.024*	P=0.024*	
MAX-ISO-POLY-3	P<0.001**	P=0.017*	P<0.001**	P<0.001**	

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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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<=0.05).</p>
- ** To the right of any statistical result, indicates significance at (P<=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 ***