

**Experiment Number:** 20523 - 03  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Metal working fluids (Trim VX)

**CAS Number:** TRIMVX

**Date Report Requested:** 10/29/2014

**Time Report Requested:** 10:15:41

**First Dose M/F:** 07/20/09 / 07/20/09

**Lab:** BNW

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**NTP Study Number:** C20523  
**Lock Date:** 06/04/2012  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.2\_002  
**PWG Approval Date:** NONE

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**SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF METAL WORKING FLUIDS (TRIM VX)**

**MALE RATS**

**Organ**

Adrenal Cortex  
Kidney: Pelvis  
Larynx  
Larynx: Epiglottis  
  
Liver  
  
Lung  
  
Lung: Alveolar Epithelium  
  
Lung: Alveolar/Bronchiolar Epithelium  
Lung: Alveolus  
Lung: Bronchus-Associated Lymphoid Tissue  
Lymph Node, Bronchial  
Lymph Node, Mediastinal  
Lymph Node: Iliac  
Nose  
Nose: Goblet Cell  
Nose: Olfactory Epithelium  
Nose: Olfactory Epithelium, Glands  
Nose: Respiratory Epithelium  
  
Nose: Transitional Epithelium  
  
Pancreas: Acinus  
Pituitary Gland: Pars Intermedia  
Seminal Vesicle  
Spleen: Lymphoid Follicle  
Testes: Artery

**Morphology**

Necrosis  
Inflammation  
Infiltration Cellular Mixed Cell  
Hyperplasia  
Metaplasia  
Angiectasis  
Basophilic Focus  
Clear Cell Focus  
Fibrosis  
Infiltration Cellular Histiocyte  
Inflammation Chronic  
Hyperplasia  
Metaplasia  
Hyperplasia  
Proteinosis  
Hyperplasia Lymphohistiocytic  
Hyperplasia Lymphohistiocytic  
Hyperplasia Lymphohistiocytic  
Hyperplasia  
Inflammation  
Hyperplasia  
Accumulation, Hyaline Droplet  
Hyperplasia  
Accumulation, Hyaline Droplet  
Hyperplasia  
Hyperplasia  
Metaplasia  
Atrophy  
Hyperplasia  
Inflammation  
Atrophy  
Inflammation Chronic

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## SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF METAL WORKING FLUIDS (TRIM VX)

Testes: Germinal Epithelium  
Thymus

Atrophy  
Atrophy

### FEMALE RATS

#### Organ

Adrenal Cortex  
Adrenal Medulla  
Clitoral Gland  
Heart  
Kidney: Pelvis  
Kidney: Renal Tubule  
Larynx  
Larynx: Epiglottis  
  
Liver  
  
Liver: Bile Duct  
Lung  
  
Lung: Alveolar Epithelium  
  
Lung: Alveolar/Bronchiolar Epithelium  
Lung: Alveolus  
Lung: Bronchus-Associated Lymphoid Tissue  
Lymph Node, Bronchial  
Lymph Node, Mediastinal  
  
Lymph Node: Lumbar  
Mammary Gland  
Nose  
Nose: Goblet Cell  
Nose: Olfactory Epithelium

#### Morphology

Hematopoietic Cell Proliferation  
Hyperplasia  
Cyst  
Cardiomyopathy  
Inflammation  
Cyst  
Infiltration Cellular Mixed Cell  
Hyperplasia  
Metaplasia  
Angiectasis  
Basophilic Focus  
Clear Cell Focus  
Mixed Cell Focus  
Hyperplasia  
Fibrosis  
Infiltration Cellular Histiocyte  
Inflammation Chronic  
Hyperplasia  
Metaplasia  
Hyperplasia  
Proteinosis  
Hyperplasia Lymphohistiocytic  
Hyperplasia Lymphohistiocytic  
Hyperplasia  
Hyperplasia Lymphohistiocytic  
Hyperplasia  
Hyperplasia  
Inflammation  
Hyperplasia  
Accumulation, Hyaline Droplet

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**SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF METAL WORKING FLUIDS (TRIM VX)**

Nose: Olfactory Epithelium, Glands	Metaplasia
Nose: Respiratory Epithelium	Hyperplasia
	Accumulation, Hyaline Droplet
	Hyperplasia
Nose: Transitional Epithelium	Hyperplasia
	Metaplasia
Pituitary Gland: Pars Distalis	Hyperplasia
Skin	Ulcer
Spleen: Lymphoid Follicle	Atrophy
Stomach, Forestomach	Inflammation
Stomach, Forestomach: Epithelium	Hyperplasia

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Cortex</b>				
<b>Angiectasis</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	1/50 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	4/44.72	1/47.08	1/41.94	3/41.73
POLY-3 PERCENT (g)	8.9%	2.1%	2.4%	7.2%
TERMINAL (d)	4/36 (11%)	1/39 (3%)	1/33 (3%)	2/34 (6%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	695
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.492	P=0.164N	P=0.198N	P=0.538N
POLY 1.5	P=0.509	P=0.170N	P=0.194N	P=0.525N
POLY 6	P=0.476	P=0.156N	P=0.202N	P=0.547N
COCH-ARM / FISHERS	P=0.535	P=0.181N	P=0.181N	P=0.500N
MAX-ISO-POLY-3	P=0.245N	P=0.080N	P=0.102N	P=0.385N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Cortex</b>				
<b>Hematopoietic Cell Proliferation</b>				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Cortex Hypertrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	13/50 (26%)	18/50 (36%)	13/50 (26%)	15/50 (30%)
POLY-3 RATE (b)	13/44.86	18/47.46	13/42.96	15/42.68
POLY-3 PERCENT (g)	29%	37.9%	30.3%	35.2%
TERMINAL (d)	12/36 (33%)	14/39 (36%)	10/33 (30%)	11/34 (32%)
FIRST INCIDENCE	694	684	554	568
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.449	P=0.245	P=0.541	P=0.348
POLY 1.5	P=0.486	P=0.220	P=0.546	P=0.368
POLY 6	P=0.422	P=0.278	P=0.544	P=0.340
COCH-ARM / FISHERS	P=0.550	P=0.194	P=0.590N	P=0.412
MAX-ISO-POLY-3	P=0.444	P=0.187	P=0.447	P=0.272

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Cortex Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/44.72	0/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	4.5%	0%	0%	0%
TERMINAL (d)	2/36 (6%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.269N	P=0.226N	P=0.252N	P=0.254N
POLY 1.5	P=0.264N	P=0.231N	P=0.248N	P=0.248N
POLY 6	P=0.275N	P=0.220N	P=0.254N	P=0.258N
COCH-ARM / FISHERS	P=0.260N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.048N*	P=0.076N	P=0.090N	P=0.092N



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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Cortex</b>				
<b>Vacuolization Cytoplasmic</b>				
<b>LESION RATES</b>				
OVERALL (a)	19/50 (38%)	23/50 (46%)	21/50 (42%)	21/50 (42%)
POLY-3 RATE (b)	19/45.52	23/47.46	21/43.33	21/44.23
POLY-3 PERCENT (g)	41.7%	48.5%	48.5%	47.5%
TERMINAL (d)	17/36 (47%)	19/39 (49%)	17/33 (52%)	14/34 (41%)
FIRST INCIDENCE	603	684	555	491
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.436	P=0.328	P=0.334	P=0.368
POLY 1.5	P=0.464	P=0.301	P=0.349	P=0.381
POLY 6	P=0.425	P=0.363	P=0.329	P=0.373
COCH-ARM / FISHERS	P=0.522	P=0.272	P=0.419	P=0.419
MAX-ISO-POLY-3	P=0.440	P=0.260	P=0.265	P=0.293

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Medulla Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/49 (0%)	1/49 (2%)
POLY-3 RATE (b)	1/45.16	1/47.08	0/40.94	1/40.60
POLY-3 PERCENT (g)	2.2%	2.1%	0%	2.5%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	0/32 (0%)	1/33 (3%)
FIRST INCIDENCE	603	729 (T)	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Brain Compression</b>				
<b>LESION RATES</b>				
OVERALL (a)	8/50 (16%)	6/50 (12%)	8/50 (16%)	7/50 (14%)
POLY-3 RATE (b)	8/46.98	6/47.53	8/45.07	7/45.82
POLY-3 PERCENT (g)	17%	12.6%	17.8%	15.3%
TERMINAL (d)	3/36 (8%)	3/39 (8%)	1/33 (3%)	0/34 (0%)
FIRST INCIDENCE	421	684	452	367
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.568N	P=0.378N	P=0.572	P=0.521N
POLY 1.5	P=0.558N	P=0.384N	P=0.575	P=0.515N
POLY 6	P=0.564	P=0.366N	P=0.579	P=0.522N
COCH-ARM / FISHERS	P=0.542N	P=0.387N	P=0.607N	P=0.500N
MAX-ISO-POLY-3	P=0.629N	P=0.276N	P=0.464	P=0.409N

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Brain</b>				
<b>Hydrocephalus</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	3/50 (6%)	8/50 (16%)	4/50 (8%)
POLY-3 RATE (b)	5/46.17	3/47.35	8/45.40	4/44.59
POLY-3 PERCENT (g)	10.8%	6.3%	17.6%	9%
TERMINAL (d)	1/36 (3%)	1/39 (3%)	1/33 (3%)	0/34 (0%)
FIRST INCIDENCE	529	684	270	367
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.557N	P=0.343N	P=0.264	P=0.522N
POLY 1.5	P=0.539N	P=0.350N	P=0.264	P=0.513N
POLY 6	P=0.577N	P=0.334N	P=0.268	P=0.531N
COCH-ARM / FISHERS	P=0.516N	P=0.357N	P=0.277	P=0.500N
MAX-ISO-POLY-3	P=0.386	P=0.223N	P=0.179	P=0.385N

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Eye: Retina Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	5/50 (10%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	5/45.34	5/47.08	1/41.94	3/42.19
POLY-3 PERCENT (g)	11%	10.6%	2.4%	7.1%
TERMINAL (d)	4/36 (11%)	5/39 (13%)	1/33 (3%)	2/34 (6%)
FIRST INCIDENCE	529	729 (T)	729 (T)	540
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.326N	P=0.606N	P=0.120N	P=0.396N
POLY 1.5	P=0.313N	P=0.617N	P=0.115N	P=0.383N
POLY 6	P=0.338N	P=0.593N	P=0.124N	P=0.407N
COCH-ARM / FISHERS	P=0.293N	P=0.630N	P=0.102N	P=0.357N
MAX-ISO-POLY-3	P=0.242N	P=0.474N	P=0.061N	P=0.271N

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Harderian Gland Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/44.72	1/47.08	1/41.94	2/42.20
POLY-3 PERCENT (g)	2.2%	2.1%	2.4%	4.7%
TERMINAL (d)	1/36 (3%)	1/39 (3%)	1/33 (3%)	1/34 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	535
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.336	P=0.749N	P=0.746	P=0.480
POLY 1.5	P=0.346	P=0.754N	P=0.749	P=0.487
POLY 6	P=0.327	P=0.743N	P=0.744	P=0.475
COCH-ARM / FISHERS	P=0.363	P=0.753N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.398	P=0.485N	P=0.481	P=0.269

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Heart</b>				
<b>Cardiomyopathy</b>				
<b>LESION RATES</b>				
OVERALL (a)	21/50 (42%)	17/50 (34%)	22/50 (44%)	18/50 (36%)
POLY-3 RATE (b)	21/46.14	17/49.02	22/44.44	18/42.87
POLY-3 PERCENT (g)	45.5%	34.7%	49.5%	42%
TERMINAL (d)	16/36 (44%)	10/39 (26%)	15/33 (46%)	14/34 (41%)
FIRST INCIDENCE	535	323	452	540
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.508	P=0.192N	P=0.432	P=0.451N
POLY 1.5	P=0.525N	P=0.220N	P=0.439	P=0.410N
POLY 6	P=0.440	P=0.164N	P=0.436	P=0.489N
COCH-ARM / FISHERS	P=0.407N	P=0.268N	P=0.500	P=0.341N
MAX-ISO-POLY-3	P=0.473	P=0.146N	P=0.352	P=0.371N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Heart: Endocardium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	0/47.08	2/42.02	0/41.60
POLY-3 PERCENT (g)	0%	0%	4.8%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	1/33 (3%)	0/34 (0%)
FIRST INCIDENCE	---	---	707	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.711N	(e)	P=0.223	(e)
POLY 1.5	P=0.700N	(e)	P=0.226	(e)
POLY 6	P=0.721N	(e)	P=0.221	(e)
COCH-ARM / FISHERS	P=0.679N	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.256	(e)	P=0.076	(e)



Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney Hydronephrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/44.72	0/47.08	1/41.94	3/41.65
POLY-3 PERCENT (g)	2.2%	0%	2.4%	7.2%
TERMINAL (d)	1/36 (3%)	0/39 (0%)	1/33 (3%)	2/34 (6%)
FIRST INCIDENCE	729 (T)	---	729 (T)	716
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.067	P=0.490N	P=0.746	P=0.280
POLY 1.5	P=0.072	P=0.494N	P=0.749	P=0.289
POLY 6	P=0.063	P=0.484N	P=0.744	P=0.273
COCH-ARM / FISHERS	P=0.081	P=0.500N	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.082	P=0.158N	P=0.481	P=0.145

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney Infarct</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	1/47.08	2/42.07	0/41.60
POLY-3 PERCENT (g)	0%	2.1%	4.8%	0%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	1/33 (3%)	0/34 (0%)
FIRST INCIDENCE	---	729 (T)	694	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.534N	P=0.510	P=0.224	(e)
POLY 1.5	P=0.522N	P=0.506	P=0.227	(e)
POLY 6	P=0.544N	P=0.516	P=0.222	(e)
COCH-ARM / FISHERS	P=0.502N	P=0.500	P=0.247	(e)
MAX-ISO-POLY-3	P=0.336	P=0.172	P=0.076	(e)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney Nephropathy</b>				
<b>LESION RATES</b>				
OVERALL (a)	27/50 (54%)	31/50 (62%)	27/50 (54%)	28/50 (56%)
POLY-3 RATE (b)	27/46.77	31/47.44	27/44.31	28/43.04
POLY-3 PERCENT (g)	57.7%	65.4%	60.9%	65.1%
TERMINAL (d)	20/36 (56%)	27/39 (69%)	22/33 (67%)	23/34 (68%)
FIRST INCIDENCE	529	690	452	568
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.369	P=0.289	P=0.461	P=0.306
POLY 1.5	P=0.458	P=0.279	P=0.486	P=0.375
POLY 6	P=0.297	P=0.301	P=0.439	P=0.252
COCH-ARM / FISHERS	P=0.498N	P=0.272	P=0.579N	P=0.500
MAX-ISO-POLY-3	P=0.393	P=0.222	P=0.378	P=0.242

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney: Pelvis Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	19/50 (38%)	17/50 (34%)	5/50 (10%)	9/50 (18%)
POLY-3 RATE (b)	19/46.32	17/47.46	5/42.17	9/44.01
POLY-3 PERCENT (g)	41%	35.8%	11.9%	20.5%
TERMINAL (d)	13/36 (36%)	14/39 (36%)	3/33 (9%)	5/34 (15%)
FIRST INCIDENCE	535	684	694	367
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.021N*	P=0.380N	P<0.001N**	P=0.027N*
POLY 1.5	P=0.018N*	P=0.397N	P<0.001N**	P=0.024N*
POLY 6	P=0.023N*	P=0.364N	P=0.002N**	P=0.030N*
COCH-ARM / FISHERS	P=0.018N*	P=0.418N	P<0.001N**	P=0.022N*
MAX-ISO-POLY-3	P=0.007N**	P=0.304N	P<0.001N**	P=0.018N*

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney: Renal Tubule Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	1/47.08	1/41.94	0/41.60
POLY-3 PERCENT (g)	0%	2.1%	2.4%	0%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	1/33 (3%)	0/34 (0%)
FIRST INCIDENCE	---	729 (T)	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Larynx</b>				
<b>Infiltration Cellular Mixed Cell</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	9/50 (18%)	27/50 (54%)	31/50 (62%)
POLY-3 RATE (b)	1/44.75	9/48.15	27/46.46	31/45.37
POLY-3 PERCENT (g)	2.2%	18.7%	58.1%	68.3%
TERMINAL (d)	0/36 (0%)	6/39 (15%)	19/33 (58%)	23/34 (68%)
FIRST INCIDENCE	722	323	222	409
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.011*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.010**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.013*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.008**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.006**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Metal working fluids (Trim VX)  
CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
Time Report Requested: 10:15:41  
First Dose M/F: 07/20/09 / 07/20/09  
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Larynx</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.72	1/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	2.2%	2.1%	0%	0%
TERMINAL (d)	1/36 (3%)	1/39 (3%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Larynx: Epiglottis Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	26/50 (52%)	48/50 (96%)	50/50 (100%)
POLY-3 RATE (b)	0/44.72	26/48.54	48/48.43	50/50.00
POLY-3 PERCENT (g)	0%	53.6%	99.1%	100%
TERMINAL (d)	0/36 (0%)	20/39 (51%)	33/33 (100%)	34/34 (100%)
FIRST INCIDENCE	---	323	222	367
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Larynx: Epiglottis Metaplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	50/50 (100%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	3/44.86	50/50.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	6.7%	100%	100%	100%
TERMINAL (d)	2/36 (6%)	39/39 (100%)	33/33 (100%)	34/34 (100%)
FIRST INCIDENCE	694	323	222	367
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Angiectasis</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	2/50 (4%)	0/50 (0%)	4/50 (8%)
POLY-3 RATE (b)	5/45.33	2/47.08	0/41.94	4/41.96
POLY-3 PERCENT (g)	11%	4.3%	0%	9.5%
TERMINAL (d)	4/36 (11%)	2/39 (5%)	0/33 (0%)	3/34 (9%)
FIRST INCIDENCE	535	729 (T)	---	627
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.464	P=0.201N	P=0.037N*	P=0.548N
POLY 1.5	P=0.480	P=0.208N	P=0.036N*	P=0.531N
POLY 6	P=0.450	P=0.193N	P=0.039N*	P=0.561N
COCH-ARM / FISHERS	P=0.503	P=0.218N	P=0.028N*	P=0.500N
MAX-ISO-POLY-3	P=0.187N	P=0.113N	P=0.015N*	P=0.411N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Basophilic Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	10/50 (20%)	15/50 (30%)	9/50 (18%)
POLY-3 RATE (b)	5/44.72	10/47.23	15/42.44	9/41.65
POLY-3 PERCENT (g)	11.2%	21.2%	35.3%	21.6%
TERMINAL (d)	5/36 (14%)	9/39 (23%)	13/33 (39%)	8/34 (24%)
FIRST INCIDENCE	729 (T)	690	626	716
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.288	P=0.155	P=0.006**	P=0.152
POLY 1.5	P=0.330	P=0.144	P=0.007**	P=0.167
POLY 6	P=0.252	P=0.170	P=0.005**	P=0.142
COCH-ARM / FISHERS	P=0.405	P=0.131	P=0.011*	P=0.194
MAX-ISO-POLY-3	P=0.047*	P=0.103	P=0.003**	P=0.101

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Clear Cell Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	14/50 (28%)	23/50 (46%)	17/50 (34%)	23/50 (46%)
POLY-3 RATE (b)	14/45.14	23/47.08	17/42.61	23/42.75
POLY-3 PERCENT (g)	31%	48.9%	39.9%	53.8%
TERMINAL (d)	12/36 (33%)	23/39 (59%)	15/33 (46%)	19/34 (56%)
FIRST INCIDENCE	674	729 (T)	626	626
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.062	P=0.059	P=0.257	P=0.022*
POLY 1.5	P=0.081	P=0.053	P=0.274	P=0.029*
POLY 6	P=0.051	P=0.066	P=0.246	P=0.019*
COCH-ARM / FISHERS	P=0.126	P=0.048*	P=0.333	P=0.048*
MAX-ISO-POLY-3	P=0.026*	P=0.040*	P=0.197	P=0.015*

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Eosinophilic Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	2/44.72	0/47.08	0/41.94	2/41.60
POLY-3 PERCENT (g)	4.5%	0%	0%	4.8%
TERMINAL (d)	2/36 (6%)	0/39 (0%)	0/33 (0%)	2/34 (6%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.345	P=0.226N	P=0.252N	P=0.668
POLY 1.5	P=0.357	P=0.231N	P=0.248N	P=0.677
POLY 6	P=0.335	P=0.220N	P=0.254N	P=0.660
COCH-ARM / FISHERS	P=0.373	P=0.247N	P=0.247N	P=0.691N
MAX-ISO-POLY-3	P=0.263	P=0.076N	P=0.090N	P=0.470

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Fatty Change</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/44.72	0/47.08	1/41.94	1/42.09
POLY-3 PERCENT (g)	0%	0%	2.4%	2.4%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	1/33 (3%)	0/34 (0%)
FIRST INCIDENCE	---	---	729 (T)	581
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Hepatodiaphragmatic Nodule</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/45.33	2/47.99	0/41.94	1/41.60
POLY-3 PERCENT (g)	2.2%	4.2%	0%	2.4%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	0/33 (0%)	1/34 (3%)
FIRST INCIDENCE	535	323	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.587N	P=0.520	P=0.516N	P=0.741
POLY 1.5	P=0.581N	P=0.512	P=0.512N	P=0.748
POLY 6	P=0.593N	P=0.528	P=0.519N	P=0.735
COCH-ARM / FISHERS	P=0.572N	P=0.500	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.443N	P=0.302	P=0.177N	P=0.475

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Inflammation Granulomatous</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/44.72	1/47.08	0/41.94	2/41.65
POLY-3 PERCENT (g)	0%	2.1%	0%	4.8%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	0/33 (0%)	1/34 (3%)
FIRST INCIDENCE	---	729 (T)	---	716
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.137	P=0.510	(e)	P=0.221
POLY 1.5	P=0.142	P=0.506	(e)	P=0.227
POLY 6	P=0.134	P=0.516	(e)	P=0.217
COCH-ARM / FISHERS	P=0.149	P=0.500	(e)	P=0.247
MAX-ISO-POLY-3	P=0.080	P=0.172	(e)	P=0.076



Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Mixed Cell Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/44.72	1/47.08	2/41.94	1/41.60
POLY-3 PERCENT (g)	0%	2.1%	4.8%	2.4%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	2/33 (6%)	1/34 (3%)
FIRST INCIDENCE	---	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.479	P=0.510	P=0.223	P=0.486
POLY 1.5	P=0.495	P=0.506	P=0.226	P=0.491
POLY 6	P=0.466	P=0.516	P=0.220	P=0.481
COCH-ARM / FISHERS	P=0.522	P=0.500	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.234	P=0.172	P=0.076	P=0.158

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver: Bile Duct Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/44.72	0/47.08	2/41.94	1/41.60
POLY-3 PERCENT (g)	0%	0%	4.8%	2.4%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	2/33 (6%)	1/34 (3%)
FIRST INCIDENCE	---	---	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.334	(e)	P=0.223	P=0.486
POLY 1.5	P=0.350	(e)	P=0.226	P=0.491
POLY 6	P=0.320	(e)	P=0.220	P=0.481
COCH-ARM / FISHERS	P=0.377	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.177	(e)	P=0.076	P=0.158

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver: Bile Duct Dilatation</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/44.72	0/47.08	0/41.94	2/41.60
POLY-3 PERCENT (g)	2.2%	0%	0%	4.8%
TERMINAL (d)	1/36 (3%)	0/39 (0%)	0/33 (0%)	2/34 (6%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.168	P=0.490N	P=0.513N	P=0.475
POLY 1.5	P=0.175	P=0.494N	P=0.510N	P=0.484
POLY 6	P=0.162	P=0.484N	P=0.515N	P=0.467
COCH-ARM / FISHERS	P=0.186	P=0.500N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.132	P=0.158N	P=0.174N	P=0.266

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver: Bile Duct Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/44.93	2/47.08	1/41.94	1/41.60
POLY-3 PERCENT (g)	4.5%	4.3%	2.4%	2.4%
TERMINAL (d)	1/36 (3%)	2/39 (5%)	1/33 (3%)	1/34 (3%)
FIRST INCIDENCE	675	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.422N	P=0.677N	P=0.524N	P=0.527N
POLY 1.5	P=0.411N	P=0.684N	P=0.518N	P=0.517N
POLY 6	P=0.433N	P=0.669N	P=0.529N	P=0.535N
COCH-ARM / FISHERS	P=0.393N	P=0.691N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.494N	P=0.480N	P=0.306N	P=0.309N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung Fibrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	43/50 (86%)	45/50 (90%)	49/50 (98%)
POLY-3 RATE (b)	4/44.72	43/48.94	45/46.48	49/49.25
POLY-3 PERCENT (g)	8.9%	87.9%	96.8%	99.5%
TERMINAL (d)	4/36 (11%)	35/39 (90%)	33/33 (100%)	34/34 (100%)
FIRST INCIDENCE	729 (T)	571	452	367
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung</b>				
<b>Infiltration Cellular Histiocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	14/50 (28%)	50/50 (100%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	14/47.50	50/50.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	29.5%	100%	100%	100%
TERMINAL (d)	7/36 (19%)	39/39 (100%)	33/33 (100%)	34/34 (100%)
FIRST INCIDENCE	529	323	222	367
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	7/50 (14%)	46/50 (92%)	46/50 (92%)	48/50 (96%)
POLY-3 RATE (b)	7/45.30	46/48.99	46/47.99	48/49.47
POLY-3 PERCENT (g)	15.5%	93.9%	95.9%	97%
TERMINAL (d)	5/36 (14%)	37/39 (95%)	32/33 (97%)	33/34 (97%)
FIRST INCIDENCE	626	571	270	367
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung: Alveolar Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	11/50 (22%)	43/50 (86%)	45/50 (90%)	49/50 (98%)
POLY-3 RATE (b)	11/46.24	43/49.26	45/47.04	49/49.51
POLY-3 PERCENT (g)	23.8%	87.3%	95.7%	99%
TERMINAL (d)	7/36 (19%)	35/39 (90%)	32/33 (97%)	34/34 (100%)
FIRST INCIDENCE	421	323	452	367
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung: Alveolar Epithelium Metaplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	5/50 (10%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	5/41.60
POLY-3 PERCENT (g)	0%	0%	0%	12%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	5/34 (15%)
FIRST INCIDENCE	---	---	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	(e)	(e)	P=0.025*
POLY 1.5	P<0.001**	(e)	(e)	P=0.027*
POLY 6	P<0.001**	(e)	(e)	P=0.023*
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.028*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.009**

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung: Alveolar/Bronchiolar Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	22/50 (44%)	39/50 (78%)	46/50 (92%)
POLY-3 RATE (b)	4/44.72	22/47.40	39/45.40	46/48.32
POLY-3 PERCENT (g)	8.9%	46.4%	85.9%	95.2%
TERMINAL (d)	4/36 (11%)	19/39 (49%)	30/33 (91%)	33/34 (97%)
FIRST INCIDENCE	729 (T)	687	222	367
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung: Alveolus Proteinosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	31/50 (62%)	45/50 (90%)
POLY-3 RATE (b)	0/44.72	1/47.08	31/44.56	45/48.94
POLY-3 PERCENT (g)	0%	2.1%	69.6%	92%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	24/33 (73%)	31/34 (91%)
FIRST INCIDENCE	---	729 (T)	551	367
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.510	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.506	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.516	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.172	P<0.001**	P<0.001**

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung: Bronchus-Associated Lymphoid Tissue Hyperplasia Lymphohistiocytic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	4/50 (8%)	6/50 (12%)
POLY-3 RATE (b)	0/44.72	1/47.14	4/42.17	6/42.80
POLY-3 PERCENT (g)	0%	2.1%	9.5%	14%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	3/33 (9%)	4/34 (12%)
FIRST INCIDENCE	---	715	666	535
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.004**	P=0.510	P=0.053	P=0.013*
POLY 1.5	P=0.005**	P=0.506	P=0.054	P=0.014*
POLY 6	P=0.004**	P=0.516	P=0.052	P=0.012*
COCH-ARM / FISHERS	P=0.007**	P=0.500	P=0.059	P=0.013*
MAX-ISO-POLY-3	P=0.006**	P=0.172	P=0.019*	P=0.004**

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node, Bronchial Hyperplasia Lymphohistiocytic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/39 (0%)	17/43 (40%)	29/42 (69%)	35/42 (83%)
POLY-3 RATE (b)	0/34.63	17/40.77	29/37.74	35/40.48
POLY-3 PERCENT (g)	0%	41.7%	76.9%	86.5%
TERMINAL (d)	0/28 (0%)	14/33 (42%)	20/27 (74%)	22/27 (82%)
FIRST INCIDENCE	---	702	551	367
<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: 20523 - 03  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Metal working fluids (Trim VX)  
CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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First Dose M/F: 07/20/09 / 07/20/09  
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node, Mediastinal Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/43 (0%)	0/48 (0%)	0/44 (0%)	0/43 (0%)
POLY-3 RATE (b)	0/38.38	0/45.08	0/37.24	0/35.20
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/37 (0%)	0/30 (0%)	0/28 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node, Mediastinal Hyperplasia Lymphohistiocytic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/43 (0%)	20/48 (42%)	22/44 (50%)	32/43 (74%)
POLY-3 RATE (b)	0/38.38	20/46.69	22/39.98	32/41.34
POLY-3 PERCENT (g)	0%	42.8%	55%	77.4%
TERMINAL (d)	0/31 (0%)	13/37 (35%)	17/30 (57%)	21/28 (75%)
FIRST INCIDENCE	---	571	452	367
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node: Iliac Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/11 (9%)	2/7 (29%)	4/7 (57%)	1/8 (13%)
POLY-3 RATE (b)	1/9.62	2/6.89	4/7.00	1/6.36
POLY-3 PERCENT (g)	10.4%	29%	57.1%	15.7%
TERMINAL (d)	0/7 (0%)	2/6 (33%)	1/4 (25%)	0/4 (0%)
FIRST INCIDENCE	603	729 (T)	555	626
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.637	P=0.376	P=0.048*	P=0.667
POLY 1.5	P=0.608N	P=0.361	P=0.041*	P=0.677
POLY 6	P=0.587	P=0.392	P=0.058	P=0.654
COCH-ARM / FISHERS	P=0.557N	P=0.326	P=0.047*	P=0.678
MAX-ISO-POLY-3	P=0.238	P=0.183	P=0.015*	P=0.393



Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node: Lumbar Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	7/11 (64%)	5/7 (71%)	3/7 (43%)	4/8 (50%)
POLY-3 RATE (b)	7/9.39	5/7.00	3/6.00	4/6.88
POLY-3 PERCENT (g)	74.5%	71.4%	50%	58.1%
TERMINAL (d)	6/7 (86%)	4/6 (67%)	3/4 (75%)	2/4 (50%)
FIRST INCIDENCE	675	702	729 (T)	568
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.362N	P=0.665N	P=0.323N	P=0.433N
POLY 1.5	P=0.351N	P=0.684	P=0.330N	P=0.442N
POLY 6	P=0.377N	P=0.581N	P=0.338N	P=0.419N
COCH-ARM / FISHERS	P=0.335N	P=0.572	P=0.352N	P=0.449N
MAX-ISO-POLY-3	P=0.354N	P=0.444N	P=0.174N	P=0.251N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node: Renal Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/11 (18%)	0/7 (0%)	0/7 (0%)	2/8 (25%)
POLY-3 RATE (b)	2/9.19	0/6.89	0/6.00	2/6.36
POLY-3 PERCENT (g)	21.8%	0%	0%	31.5%
TERMINAL (d)	2/7 (29%)	0/6 (0%)	0/4 (0%)	1/4 (25%)
FIRST INCIDENCE	729 (T)	---	---	626
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.277	P=0.291N	P=0.327N	P=0.561
POLY 1.5	P=0.296	P=0.309N	P=0.329N	P=0.569
POLY 6	P=0.256	P=0.270N	P=0.328N	P=0.553
COCH-ARM / FISHERS	P=0.323	P=0.359N	P=0.359N	P=0.574
MAX-ISO-POLY-3	P=0.216	P=0.100N	P=0.132N	P=0.352

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mammary Gland Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/4 (25%)	0/5 (0%)	0/1 (0%)	0/2 (0%)
POLY-3 RATE (b)	1/4.00	0/4.26	0/1.00	0/1.63
POLY-3 PERCENT (g)	25%	0%	0%	0%
TERMINAL (d)	1/4 (25%)	0/2 (0%)	0/1 (0%)	0/1 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mammary Gland: Duct Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/4 (0%)	0/5 (0%)	0/1 (0%)	0/2 (0%)
POLY-3 RATE (b)	0/4.00	0/4.26	0/1.00	0/1.63
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/4 (0%)	0/2 (0%)	0/1 (0%)	0/1 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mesentery: Fat Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/2 (100%)	2/2 (100%)	2/3 (67%)	4/5 (80%)
POLY-3 RATE (b)	2/2.00	2/2.00	2/2.67	4/5.00
POLY-3 PERCENT (g)	100%	100%	74.8%	80%
TERMINAL (d)	1/1 (100%)	1/1 (100%)	1/1 (100%)	2/3 (67%)
FIRST INCIDENCE	675	684	646	568
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.489N	(e)	P=0.715N	P=0.673N
POLY 1.5	P=0.513N	(e)	P=0.642N	P=0.673N
POLY 6	P=0.451N	(e)	P=0.869N	P=0.673N
COCH-ARM / FISHERS	P=0.544N	(e)	P=0.600N	P=0.714N
MAX-ISO-POLY-3	P=0.454N	(e)	P=0.230N	P=0.308N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	7/50 (14%)	46/50 (92%)	47/50 (94%)	46/50 (92%)
POLY-3 RATE (b)	7/45.01	46/50.00	47/49.90	46/49.12
POLY-3 PERCENT (g)	15.6%	92%	94.2%	93.7%
TERMINAL (d)	4/36 (11%)	35/39 (90%)	31/33 (94%)	32/34 (94%)
FIRST INCIDENCE	674	323	222	367
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Goblet Cell Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	36/50 (72%)	37/50 (74%)	42/50 (84%)
POLY-3 RATE (b)	5/44.78	36/49.73	37/46.85	42/47.19
POLY-3 PERCENT (g)	11.2%	72.4%	79%	89%
TERMINAL (d)	4/36 (11%)	27/39 (69%)	27/33 (82%)	30/34 (88%)
FIRST INCIDENCE	716	323	222	459
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Olfactory Epithelium Accumulation, Hyaline Droplet</b>				
<b>LESION RATES</b>				
OVERALL (a)	20/50 (40%)	50/50 (100%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	20/48.29	50/50.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	41.4%	100%	100%	100%
TERMINAL (d)	11/36 (31%)	39/39 (100%)	33/33 (100%)	34/34 (100%)
FIRST INCIDENCE	421	323	222	367
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Olfactory Epithelium Metaplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/44.72	1/47.08	0/41.94	1/41.60
POLY-3 PERCENT (g)	0%	2.1%	0%	2.4%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	0/33 (0%)	1/34 (3%)
FIRST INCIDENCE	---	729 (T)	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Olfactory Epithelium, Glands Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	43/50 (86%)	41/50 (82%)	49/50 (98%)
POLY-3 RATE (b)	0/44.72	43/49.90	41/48.56	49/49.25
POLY-3 PERCENT (g)	0%	86.2%	84.4%	99.5%
TERMINAL (d)	0/36 (0%)	33/39 (85%)	28/33 (85%)	34/34 (100%)
FIRST INCIDENCE	---	323	222	367
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Respiratory Epithelium Accumulation, Hyaline Droplet</b>				
<b>LESION RATES</b>				
OVERALL (a)	10/50 (20%)	50/50 (100%)	48/50 (96%)	50/50 (100%)
POLY-3 RATE (b)	10/45.75	50/50.00	48/49.90	50/50.00
POLY-3 PERCENT (g)	21.9%	100%	96.2%	100%
TERMINAL (d)	7/36 (19%)	39/39 (100%)	32/33 (97%)	34/34 (100%)
FIRST INCIDENCE	535	323	222	367
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Respiratory Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	7/50 (14%)	7/50 (14%)	19/50 (38%)
POLY-3 RATE (b)	2/44.78	7/47.19	7/42.34	19/44.17
POLY-3 PERCENT (g)	4.5%	14.8%	16.5%	43%
TERMINAL (d)	1/36 (3%)	6/39 (15%)	5/33 (15%)	14/34 (41%)
FIRST INCIDENCE	716	702	646	367
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.092	P=0.065	P<0.001**
POLY 1.5	P<0.001**	P=0.086	P=0.068	P<0.001**
POLY 6	P<0.001**	P=0.099	P=0.064	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.080	P=0.080	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.050*	P=0.034*	P<0.001**

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Transitional Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	7/50 (14%)	7/50 (14%)	8/50 (16%)	13/50 (26%)
POLY-3 RATE (b)	7/44.99	7/47.24	8/41.94	13/41.60
POLY-3 PERCENT (g)	15.6%	14.8%	19.1%	31.3%
TERMINAL (d)	5/36 (14%)	5/39 (13%)	8/33 (24%)	13/34 (38%)
FIRST INCIDENCE	674	702	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.025*	P=0.575N	P=0.441	P=0.067
POLY 1.5	P=0.032*	P=0.592N	P=0.456	P=0.080
POLY 6	P=0.019*	P=0.555N	P=0.427	P=0.057
COCH-ARM / FISHERS	P=0.048*	P=0.613N	P=0.500	P=0.105
MAX-ISO-POLY-3	P=0.039*	P=0.461N	P=0.337	P=0.045*

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Transitional Epithelium Metaplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	2/50 (4%)	3/50 (6%)	6/50 (12%)
POLY-3 RATE (b)	2/44.72	2/47.08	3/41.94	6/41.60
POLY-3 PERCENT (g)	4.5%	4.3%	7.2%	14.4%
TERMINAL (d)	2/36 (6%)	2/39 (5%)	3/33 (9%)	6/34 (18%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.038*	P=0.675N	P=0.471	P=0.110
POLY 1.5	P=0.043*	P=0.683N	P=0.477	P=0.118
POLY 6	P=0.034*	P=0.665N	P=0.466	P=0.103
COCH-ARM / FISHERS	P=0.053	P=0.691N	P=0.500	P=0.134
MAX-ISO-POLY-3	P=0.061	P=0.478N	P=0.303	P=0.061

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pancreas: Acinus Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	7/50 (14%)	2/50 (4%)	9/50 (18%)	2/50 (4%)
POLY-3 RATE (b)	7/45.76	2/47.08	9/42.07	2/41.60
POLY-3 PERCENT (g)	15.3%	4.3%	21.4%	4.8%
TERMINAL (d)	5/36 (14%)	2/39 (5%)	8/33 (24%)	2/34 (6%)
FIRST INCIDENCE	535	729 (T)	694	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.207N	P=0.072N	P=0.322	P=0.103N
POLY 1.5	P=0.182N	P=0.076N	P=0.341	P=0.094N
POLY 6	P=0.234N	P=0.068N	P=0.305	P=0.113N
COCH-ARM / FISHERS	P=0.149N	P=0.080N	P=0.393	P=0.080N
MAX-ISO-POLY-3	P=0.110N	P=0.037N*	P=0.240	P=0.061N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Parathyroid Gland Fibrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/39 (3%)	0/44 (0%)	0/46 (0%)	0/49 (0%)
POLY-3 RATE (b)	1/33.94	0/41.35	0/38.86	0/40.60
POLY-3 PERCENT (g)	3%	0%	0%	0%
TERMINAL (d)	1/28 (4%)	0/35 (0%)	0/31 (0%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)



Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Peripheral Nerve: Axon Degeneration</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/4 (0%)	0/2 (0%)	2/8 (25%)	0/2 (0%)
POLY-3 RATE (b)	0/2.45	0/1.80	2/5.05	0/0.80
POLY-3 PERCENT (g)	0%	0%	39.6%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	646	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.547	(e)	P=0.392	(e)
POLY 1.5	P=0.684	(e)	P=0.391	(e)
POLY 6	P=0.304	(e)	P=0.409	(e)
COCH-ARM / FISHERS	P=0.789	(e)	P=0.424	(e)
MAX-ISO-POLY-3	P=0.532	(e)	P=0.158	(e)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pituitary Gland Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	2/50 (4%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	2/45.33	2/47.08	4/41.94	1/41.60
POLY-3 PERCENT (g)	4.4%	4.3%	9.5%	2.4%
TERMINAL (d)	1/36 (3%)	2/39 (5%)	4/33 (12%)	1/34 (3%)
FIRST INCIDENCE	535	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.421N	P=0.680N	P=0.302	P=0.530N
POLY 1.5	P=0.400N	P=0.686N	P=0.311	P=0.519N
POLY 6	P=0.442N	P=0.673N	P=0.294	P=0.539N
COCH-ARM / FISHERS	P=0.366N	P=0.691N	P=0.339	P=0.500N
MAX-ISO-POLY-3	P=0.386N	P=0.484N	P=0.182	P=0.313N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pituitary Gland: Pars Distalis Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	12/50 (24%)	15/50 (30%)	8/50 (16%)	11/50 (22%)
POLY-3 RATE (b)	12/44.72	15/47.61	8/42.17	11/41.73
POLY-3 PERCENT (g)	26.8%	31.5%	19%	26.4%
TERMINAL (d)	12/36 (33%)	13/39 (33%)	6/33 (18%)	10/34 (29%)
FIRST INCIDENCE	729 (T)	589	694	695
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.449N	P=0.396	P=0.269N	P=0.577N
POLY 1.5	P=0.411N	P=0.364	P=0.261N	P=0.550N
POLY 6	P=0.485N	P=0.436	P=0.272N	P=0.597N
COCH-ARM / FISHERS	P=0.353N	P=0.326	P=0.227N	P=0.500N
MAX-ISO-POLY-3	P=0.406N	P=0.316	P=0.199N	P=0.480N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pituitary Gland: Pars Intermedia Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	0/47.08	3/42.24	0/41.60
POLY-3 PERCENT (g)	0%	0%	7.1%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	2/33 (6%)	0/34 (0%)
FIRST INCIDENCE	---	---	646	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.668N	(e)	P=0.109	(e)
POLY 1.5	P=0.652N	(e)	P=0.111	(e)
POLY 6	P=0.682N	(e)	P=0.107	(e)
COCH-ARM / FISHERS	P=0.623N	(e)	P=0.121	(e)
MAX-ISO-POLY-3	P=0.173	(e)	P=0.038*	(e)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Preputial Gland Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	17/49 (35%)	13/50 (26%)	11/50 (22%)	16/50 (32%)
POLY-3 RATE (b)	17/45.88	13/47.83	11/43.58	16/42.70
POLY-3 PERCENT (g)	37.1%	27.2%	25.2%	37.5%
TERMINAL (d)	11/36 (31%)	10/39 (26%)	8/33 (24%)	14/34 (41%)
FIRST INCIDENCE	529	571	268	535
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.337	P=0.211N	P=0.163N	P=0.571
POLY 1.5	P=0.388	P=0.221N	P=0.148N	P=0.553N
POLY 6	P=0.288	P=0.203N	P=0.183N	P=0.519
COCH-ARM / FISHERS	P=0.470	P=0.235N	P=0.119N	P=0.472N
MAX-ISO-POLY-3	P=0.374	P=0.157N	P=0.120N	P=0.483

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Prostate Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	17/50 (34%)	12/50 (24%)	10/50 (20%)	10/50 (20%)
POLY-3 RATE (b)	17/45.83	12/47.73	10/44.22	10/43.44
POLY-3 PERCENT (g)	37.1%	25.1%	22.6%	23%
TERMINAL (d)	13/36 (36%)	7/39 (18%)	4/33 (12%)	7/34 (21%)
FIRST INCIDENCE	529	684	452	367
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.183N	P=0.151N	P=0.100N	P=0.109N
POLY 1.5	P=0.162N	P=0.168N	P=0.101N	P=0.100N
POLY 6	P=0.208N	P=0.132N	P=0.096N	P=0.119N
COCH-ARM / FISHERS	P=0.136N	P=0.189N	P=0.088N	P=0.088N
MAX-ISO-POLY-3	P=0.113N	P=0.109N	P=0.068N	P=0.077N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Seminal Vesicle Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	4/45.18	0/47.08	1/41.94	0/41.60
POLY-3 PERCENT (g)	8.9%	0%	2.4%	0%
TERMINAL (d)	2/36 (6%)	0/39 (0%)	1/33 (3%)	0/34 (0%)
FIRST INCIDENCE	662	---	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.113N	P=0.055N	P=0.202N	P=0.071N
POLY 1.5	P=0.107N	P=0.058N	P=0.196N	P=0.067N
POLY 6	P=0.119N	P=0.053N	P=0.208N	P=0.076N
COCH-ARM / FISHERS	P=0.101N	P=0.059N	P=0.181N	P=0.059N
MAX-ISO-POLY-3	P=0.013N*	P=0.019N*	P=0.105N	P=0.028N*

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Skin</b>				
<b>Cyst Epithelial Inclusion</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/44.72	2/47.08	1/41.94	1/41.60
POLY-3 PERCENT (g)	4.5%	4.3%	2.4%	2.4%
TERMINAL (d)	2/36 (6%)	2/39 (5%)	1/33 (3%)	1/34 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.421N	P=0.675N	P=0.522N	P=0.525N
POLY 1.5	P=0.410N	P=0.683N	P=0.517N	P=0.516N
POLY 6	P=0.432N	P=0.665N	P=0.526N	P=0.532N
COCH-ARM / FISHERS	P=0.393N	P=0.691N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.491N	P=0.478N	P=0.305N	P=0.308N



Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Skin Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	4/50 (8%)
POLY-3 RATE (b)	2/44.93	1/47.08	0/41.94	4/43.44
POLY-3 PERCENT (g)	4.5%	2.1%	0%	9.2%
TERMINAL (d)	1/36 (3%)	1/39 (3%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	675	729 (T)	---	459
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.092	P=0.484N	P=0.253N	P=0.321
POLY 1.5	P=0.095	P=0.491N	P=0.249N	P=0.326
POLY 6	P=0.089	P=0.476N	P=0.256N	P=0.320
COCH-ARM / FISHERS	P=0.101	P=0.500N	P=0.247N	P=0.339
MAX-ISO-POLY-3	P=0.078	P=0.271N	P=0.091N	P=0.192

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Skin</b>				
<b>Ulcer</b>				
<b>LESION RATES</b>				
OVERALL (a)	16/50 (32%)	14/50 (28%)	13/50 (26%)	13/50 (26%)
POLY-3 RATE (b)	16/47.57	14/47.62	13/43.89	13/43.87
POLY-3 PERCENT (g)	33.6%	29.4%	29.6%	29.6%
TERMINAL (d)	8/36 (22%)	10/39 (26%)	7/33 (21%)	8/34 (24%)
FIRST INCIDENCE	535	673	554	535
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.453N	P=0.412N	P=0.426N	P=0.426N
POLY 1.5	P=0.414N	P=0.414N	P=0.400N	P=0.391N
POLY 6	P=0.487N	P=0.412N	P=0.450N	P=0.459N
COCH-ARM / FISHERS	P=0.350N	P=0.414N	P=0.330N	P=0.330N
MAX-ISO-POLY-3	P=0.542N	P=0.329N	P=0.346N	P=0.346N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Spleen</b>				
<b>Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	7/50 (14%)	9/50 (18%)	8/50 (16%)	8/50 (16%)
<b>POLY-3 RATE (b)</b>	7/46.73	9/48.68	8/43.81	8/43.85
<b>POLY-3 PERCENT (g)</b>	15%	18.5%	18.3%	18.3%
<b>TERMINAL (d)</b>	3/36 (8%)	6/39 (15%)	3/33 (9%)	4/34 (12%)
<b>FIRST INCIDENCE</b>	535	323	551	459
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.470	P=0.427	P=0.446	P=0.447
<b>POLY 1.5</b>	P=0.499	P=0.415	P=0.457	P=0.465
<b>POLY 6</b>	P=0.446	P=0.440	P=0.440	P=0.431
<b>COCH-ARM / FISHERS</b>	P=0.549	P=0.393	P=0.500	P=0.500
<b>MAX-ISO-POLY-3</b>	P=0.544	P=0.327	P=0.342	P=0.343

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Spleen: Lymphoid Follicle Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	3/45.62	0/47.08	2/42.54	0/41.60
POLY-3 PERCENT (g)	6.6%	0%	4.7%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	529	---	626	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.205N	P=0.113N	P=0.532N	P=0.136N
POLY 1.5	P=0.193N	P=0.116N	P=0.524N	P=0.130N
POLY 6	P=0.216N	P=0.110N	P=0.537N	P=0.142N
COCH-ARM / FISHERS	P=0.178N	P=0.121N	P=0.500N	P=0.121N
MAX-ISO-POLY-3	P=0.063N	P=0.038N*	P=0.357N	P=0.053N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Stomach, Forestomach Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.97	0/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	662	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Metal working fluids (Trim VX)  
CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
Time Report Requested: 10:15:41  
First Dose M/F: 07/20/09 / 07/20/09  
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Stomach, Forestomach: Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Testes</b>				
<b>Edema</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	3/44.72	2/47.19	1/41.94	2/41.60
POLY-3 PERCENT (g)	6.7%	4.2%	2.4%	4.8%
TERMINAL (d)	3/36 (8%)	1/39 (3%)	1/33 (3%)	2/34 (6%)
FIRST INCIDENCE	729 (T)	702	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.550N	P=0.476N	P=0.328N	P=0.533N
POLY 1.5	P=0.536N	P=0.487N	P=0.323N	P=0.521N
POLY 6	P=0.563N	P=0.462N	P=0.332N	P=0.542N
COCH-ARM / FISHERS	P=0.516N	P=0.500N	P=0.309N	P=0.500N
MAX-ISO-POLY-3	P=0.412N	P=0.307N	P=0.178N	P=0.358N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Testes: Artery Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/44.72	0/47.08	0/41.94	1/41.60
POLY-3 PERCENT (g)	6.7%	0%	0%	2.4%
TERMINAL (d)	3/36 (8%)	0/39 (0%)	0/33 (0%)	1/34 (3%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.493N	P=0.110N	P=0.130N	P=0.331N
POLY 1.5	P=0.484N	P=0.114N	P=0.128N	P=0.322N
POLY 6	P=0.503N	P=0.105N	P=0.132N	P=0.339N
COCH-ARM / FISHERS	P=0.472N	P=0.121N	P=0.121N	P=0.309N
MAX-ISO-POLY-3	P=0.061N	P=0.038N*	P=0.048N*	P=0.181N



Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Testes: Germinal Epithelium Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	8/50 (16%)	0/50 (0%)	6/50 (12%)
POLY-3 RATE (b)	3/44.78	8/47.18	0/41.94	6/43.96
POLY-3 PERCENT (g)	6.7%	17%	0%	13.7%
TERMINAL (d)	2/36 (6%)	7/39 (18%)	0/33 (0%)	2/34 (6%)
FIRST INCIDENCE	716	705	---	459
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.369	P=0.115	P=0.131N	P=0.232
POLY 1.5	P=0.372	P=0.108	P=0.128N	P=0.235
POLY 6	P=0.369	P=0.125	P=0.133N	P=0.233
COCH-ARM / FISHERS	P=0.380	P=0.100	P=0.121N	P=0.243
MAX-ISO-POLY-3	P=0.214	P=0.069	P=0.048N*	P=0.141

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Testes: Interstitial Cell Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/44.72	0/47.08	0/41.94	1/41.60
POLY-3 PERCENT (g)	4.5%	0%	0%	2.4%
TERMINAL (d)	2/36 (6%)	0/39 (0%)	0/33 (0%)	1/34 (3%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.685N	P=0.226N	P=0.252N	P=0.525N
POLY 1.5	P=0.679N	P=0.231N	P=0.248N	P=0.516N
POLY 6	P=0.691	P=0.220N	P=0.254N	P=0.532N
COCH-ARM / FISHERS	P=0.670N	P=0.247N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.165N	P=0.076N	P=0.090N	P=0.308N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Thymus Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	35/48 (73%)	36/49 (73%)	26/50 (52%)	26/50 (52%)
POLY-3 RATE (b)	35/45.73	36/47.70	26/46.01	26/49.42
POLY-3 PERCENT (g)	76.5%	75.5%	56.5%	52.6%
TERMINAL (d)	25/34 (74%)	31/39 (80%)	16/33 (49%)	12/34 (35%)
FIRST INCIDENCE	529	673	270	367
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.004N**	P=0.549N	P=0.031N*	P=0.011N*
POLY 1.5	P=0.006N**	P=0.569N	P=0.031N*	P=0.015N*
POLY 6	P=0.003N**	P=0.544N	P=0.030N*	P=0.008N**
COCH-ARM / FISHERS	P=0.013N*	P=0.566	P=0.027N*	P=0.027N*
MAX-ISO-POLY-3	P=0.007N**	P=0.450N	P=0.019N*	P=0.007N**

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thymus Cyst				
<b>LESION RATES</b>				
OVERALL (a)	0/48 (0%)	0/49 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/42.72	0/46.99	1/41.94	0/41.60
POLY-3 PERCENT (g)	0%	0%	2.4%	0%
TERMINAL (d)	0/34 (0%)	0/39 (0%)	1/33 (3%)	0/34 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Thyroid Gland: C-Cell Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	36/50 (72%)	39/50 (78%)	34/50 (68%)	40/50 (80%)
POLY-3 RATE (b)	36/47.54	39/48.13	34/47.35	40/49.14
POLY-3 PERCENT (g)	75.7%	81%	71.8%	81.4%
TERMINAL (d)	27/36 (75%)	34/39 (87%)	22/33 (67%)	26/34 (77%)
FIRST INCIDENCE	529	571	222	367
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.345	P=0.347	P=0.419N	P=0.330
POLY 1.5	P=0.312	P=0.331	P=0.440N	P=0.294
POLY 6	P=0.379	P=0.367	P=0.379N	P=0.372
COCH-ARM / FISHERS	P=0.256	P=0.322	P=0.414N	P=0.241
MAX-ISO-POLY-3	P=0.406	P=0.260	P=0.330N	P=0.247

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Thyroid Gland: Follicle Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	7/50 (14%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	4/45.33	7/47.08	4/41.94	1/41.60
POLY-3 PERCENT (g)	8.8%	14.9%	9.5%	2.4%
TERMINAL (d)	3/36 (8%)	7/39 (18%)	4/33 (12%)	1/34 (3%)
FIRST INCIDENCE	535	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.076N	P=0.283	P=0.600	P=0.206N
POLY 1.5	P=0.068N	P=0.273	P=0.611	P=0.196N
POLY 6	P=0.084N	P=0.295	P=0.590	P=0.214N
COCH-ARM / FISHERS	P=0.058N	P=0.262	P=0.643N	P=0.181N
MAX-ISO-POLY-3	P=0.114N	P=0.190	P=0.455	P=0.109N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Cortex</b>				
<b>Angiectasis</b>				
<b>LESION RATES</b>				
OVERALL (a)	28/50 (56%)	25/50 (50%)	28/50 (56%)	27/50 (54%)
POLY-3 RATE (b)	28/44.38	25/43.68	28/46.33	27/46.80
POLY-3 PERCENT (g)	63.1%	57.2%	60.4%	57.7%
TERMINAL (d)	21/30 (70%)	21/33 (64%)	21/33 (64%)	17/30 (57%)
FIRST INCIDENCE	534	590	516	532
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.416N	P=0.361N	P=0.481N	P=0.374N
POLY 1.5	P=0.467N	P=0.376N	P=0.518N	P=0.426N
POLY 6	P=0.362N	P=0.327N	P=0.443N	P=0.312N
COCH-ARM / FISHERS	P=0.534	P=0.344N	P=0.580N	P=0.500N
MAX-ISO-POLY-3	P=0.479N	P=0.283N	P=0.393N	P=0.299N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Cortex Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/43.60	0/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	6.9%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	352	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.139N	P=0.124N	P=0.116N	P=0.117N
POLY 1.5	P=0.139N	P=0.124N	P=0.117N	P=0.118N
POLY 6	P=0.140N	P=0.122N	P=0.115N	P=0.116N
COCH-ARM / FISHERS	P=0.147N	P=0.121N	P=0.121N	P=0.121N
MAX-ISO-POLY-3	P=0.010N**	P=0.042N*	P=0.038N*	P=0.038N*



Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Cortex Hypertrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	10/50 (20%)	5/50 (10%)	15/50 (30%)	10/50 (20%)
POLY-3 RATE (b)	10/44.48	5/42.51	15/45.46	10/44.63
POLY-3 PERCENT (g)	22.5%	11.8%	33%	22.4%
TERMINAL (d)	4/30 (13%)	4/33 (12%)	12/33 (36%)	7/30 (23%)
FIRST INCIDENCE	534	654	516	613
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.407	P=0.148N	P=0.188	P=0.597N
POLY 1.5	P=0.404	P=0.145N	P=0.187	P=0.595N
POLY 6	P=0.402	P=0.150N	P=0.183	P=0.598
COCH-ARM / FISHERS	P=0.378	P=0.131N	P=0.178	P=0.598N
MAX-ISO-POLY-3	P=0.185	P=0.097N	P=0.133	P=0.496N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Cortex Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/41.92	0/42.23	2/44.39	1/44.05
POLY-3 PERCENT (g)	0%	0%	4.5%	2.3%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/33 (3%)	0/30 (0%)
FIRST INCIDENCE	---	---	677	705
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.400	(e)	P=0.250	P=0.510
POLY 1.5	P=0.393	(e)	P=0.245	P=0.506
POLY 6	P=0.405	(e)	P=0.255	P=0.514
COCH-ARM / FISHERS	P=0.377	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.196	(e)	P=0.088	P=0.171

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Cortex Vacuolization Cytoplasmic</b>				
<b>LESION RATES</b>				
OVERALL (a)	9/50 (18%)	8/50 (16%)	14/50 (28%)	11/50 (22%)
POLY-3 RATE (b)	9/44.32	8/43.68	14/45.21	11/44.94
POLY-3 PERCENT (g)	20.3%	18.3%	31%	24.5%
TERMINAL (d)	2/30 (7%)	4/33 (12%)	10/33 (30%)	8/30 (27%)
FIRST INCIDENCE	576	586	626	593
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.353	P=0.513N	P=0.179	P=0.414
POLY 1.5	P=0.354	P=0.517N	P=0.178	P=0.412
POLY 6	P=0.339	P=0.504N	P=0.175	P=0.407
COCH-ARM / FISHERS	P=0.332	P=0.500N	P=0.171	P=0.402
MAX-ISO-POLY-3	P=0.285	P=0.405N	P=0.125	P=0.319

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Medulla Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	1/50 (2%)	0/50 (0%)	1/49 (2%)
POLY-3 RATE (b)	3/42.09	1/42.23	0/44.19	1/43.23
POLY-3 PERCENT (g)	7.1%	2.4%	0%	2.3%
TERMINAL (d)	1/30 (3%)	1/33 (3%)	0/33 (0%)	0/29 (0%)
FIRST INCIDENCE	702	731 (T)	---	653
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.362N	P=0.304N	P=0.110N	P=0.295N
POLY 1.5	P=0.362N	P=0.308N	P=0.113N	P=0.302N
POLY 6	P=0.363N	P=0.295N	P=0.107N	P=0.288N
COCH-ARM / FISHERS	P=0.367N	P=0.309N	P=0.121N	P=0.316N
MAX-ISO-POLY-3	P=0.085N	P=0.153N	P=0.038N*	P=0.151N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Brain Compression</b>				
<b>LESION RATES</b>				
OVERALL (a)	17/50 (34%)	16/50 (32%)	21/50 (42%)	17/50 (34%)
POLY-3 RATE (b)	17/45.85	16/47.31	21/46.45	17/48.05
POLY-3 PERCENT (g)	37.1%	33.8%	45.2%	35.4%
TERMINAL (d)	7/30 (23%)	4/33 (12%)	14/33 (42%)	6/30 (20%)
FIRST INCIDENCE	534	346	516	436
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.503N	P=0.455N	P=0.279	P=0.517N
POLY 1.5	P=0.516N	P=0.485N	P=0.279	P=0.540N
POLY 6	P=0.502N	P=0.415N	P=0.269	P=0.499N
COCH-ARM / FISHERS	P=0.542	P=0.500N	P=0.268	P=0.583N
MAX-ISO-POLY-3	P=0.510	P=0.372N	P=0.214	P=0.432N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Brain</b>				
<b>Hydrocephalus</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	9/50 (18%)	4/50 (8%)	8/50 (16%)
POLY-3 RATE (b)	6/43.77	9/46.22	4/44.93	8/47.03
POLY-3 PERCENT (g)	13.7%	19.5%	8.9%	17%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	598	346	646	436
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.487	P=0.327	P=0.353N	P=0.443
POLY 1.5	P=0.472	P=0.305	P=0.358N	P=0.422
POLY 6	P=0.497	P=0.355	P=0.352N	P=0.461
COCH-ARM / FISHERS	P=0.440	P=0.288	P=0.370N	P=0.387
MAX-ISO-POLY-3	P=0.510N	P=0.239	P=0.241N	P=0.337

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Clitoral Gland Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/48 (0%)	0/49 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/41.92	0/40.56	0/43.56	2/44.13
POLY-3 PERCENT (g)	0%	0%	0%	4.5%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	---	---	---	684
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.045*	(e)	(e)	P=0.249
POLY 1.5	P=0.045*	(e)	(e)	P=0.244
POLY 6	P=0.046*	(e)	(e)	P=0.254
COCH-ARM / FISHERS	P=0.044*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.045*	(e)	(e)	P=0.087

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Clitoral Gland Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	11/50 (22%)	12/48 (25%)	13/49 (27%)	12/50 (24%)
POLY-3 RATE (b)	11/44.63	12/42.22	13/45.21	12/44.64
POLY-3 PERCENT (g)	24.7%	28.4%	28.8%	26.9%
TERMINAL (d)	5/30 (17%)	9/32 (28%)	8/33 (24%)	10/30 (33%)
FIRST INCIDENCE	352	492	516	532
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.535	P=0.438	P=0.420	P=0.500
POLY 1.5	P=0.540	P=0.432	P=0.407	P=0.501
POLY 6	P=0.518	P=0.453	P=0.433	P=0.492
COCH-ARM / FISHERS	P=0.530	P=0.455	P=0.385	P=0.500
MAX-ISO-POLY-3	P=0.568	P=0.347	P=0.331	P=0.402



Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Eye: Retina Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	3/41.92	2/42.23	1/44.19	2/43.95
POLY-3 PERCENT (g)	7.2%	4.7%	2.3%	4.6%
TERMINAL (d)	3/30 (10%)	2/33 (6%)	1/33 (3%)	2/30 (7%)
FIRST INCIDENCE	731 (T)	731 (T)	731 (T)	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.503N	P=0.497N	P=0.286N	P=0.478N
POLY 1.5	P=0.506N	P=0.503N	P=0.293N	P=0.487N
POLY 6	P=0.502N	P=0.484N	P=0.279N	P=0.469N
COCH-ARM / FISHERS	P=0.516N	P=0.500N	P=0.309N	P=0.500N
MAX-ISO-POLY-3	P=0.344N	P=0.321N	P=0.147N	P=0.308N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Harderian Gland Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	3/50 (6%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	1/41.92	3/42.23	3/44.66	2/44.02
POLY-3 PERCENT (g)	2.4%	7.1%	6.7%	4.5%
TERMINAL (d)	1/30 (3%)	3/33 (9%)	2/33 (6%)	1/30 (3%)
FIRST INCIDENCE	731 (T)	731 (T)	593	712
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.614N	P=0.307	P=0.328	P=0.517
POLY 1.5	P=0.619	P=0.302	P=0.319	P=0.510
POLY 6	P=0.607N	P=0.317	P=0.337	P=0.525
COCH-ARM / FISHERS	P=0.602	P=0.309	P=0.309	P=0.500
MAX-ISO-POLY-3	P=0.367	P=0.156	P=0.177	P=0.299

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 10/29/2014

Time Report Requested: 10:15:41

First Dose M/F: 07/20/09 / 07/20/09

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Heart</b>				
<b>Cardiomyopathy</b>				
<b>LESION RATES</b>				
OVERALL (a)	7/50 (14%)	7/50 (14%)	8/50 (16%)	1/50 (2%)
POLY-3 RATE (b)	7/41.98	7/42.54	8/44.65	1/44.05
POLY-3 PERCENT (g)	16.7%	16.5%	17.9%	2.3%
TERMINAL (d)	6/30 (20%)	5/33 (15%)	6/33 (18%)	0/30 (0%)
FIRST INCIDENCE	716	654	626	705
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.015N*	P=0.604N	P=0.552	P=0.024N*
POLY 1.5	P=0.016N*	P=0.611	P=0.532	P=0.027N*
POLY 6	P=0.014N*	P=0.580N	P=0.575	P=0.022N*
COCH-ARM / FISHERS	P=0.021N*	P=0.613N	P=0.500	P=0.030N*
MAX-ISO-POLY-3	P=0.024N*	P=0.488N	P=0.440	P=0.011N*

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Heart: Endocardium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.92	0/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney</b>				
<b>Hydronephrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.92	2/42.30	0/44.19	1/44.05
POLY-3 PERCENT (g)	0%	4.7%	0%	2.3%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	713	---	705
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.633	P=0.239	(e)	P=0.510
POLY 1.5	P=0.627	P=0.236	(e)	P=0.506
POLY 6	P=0.640	P=0.245	(e)	P=0.514
COCH-ARM / FISHERS	P=0.619	P=0.247	(e)	P=0.500
MAX-ISO-POLY-3	P=0.348	P=0.078	(e)	P=0.171

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Kidney Infarct				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.92	2/42.48	0/44.19	0/43.95
POLY-3 PERCENT (g)	2.4%	4.7%	0%	0%
TERMINAL (d)	1/30 (3%)	1/33 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	731 (T)	663	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.220N	P=0.505	P=0.489N	P=0.491N
POLY 1.5	P=0.222N	P=0.498	P=0.493N	P=0.494N
POLY 6	P=0.217N	P=0.516	P=0.486N	P=0.487N
COCH-ARM / FISHERS	P=0.224N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.178N	P=0.286	P=0.158N	P=0.158N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney Nephropathy</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	5/50 (10%)	5/50 (10%)	7/50 (14%)
POLY-3 RATE (b)	4/42.53	5/42.23	5/44.68	7/44.41
POLY-3 PERCENT (g)	9.4%	11.8%	11.2%	15.8%
TERMINAL (d)	3/30 (10%)	5/33 (15%)	2/33 (6%)	5/30 (17%)
FIRST INCIDENCE	534	731 (T)	677	626
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.246	P=0.496	P=0.531	P=0.285
POLY 1.5	P=0.239	P=0.490	P=0.519	P=0.276
POLY 6	P=0.253	P=0.508	P=0.545	P=0.297
COCH-ARM / FISHERS	P=0.221	P=0.500	P=0.500	P=0.262
MAX-ISO-POLY-3	P=0.305	P=0.358	P=0.393	P=0.192

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney: Pelvis Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	28/50 (56%)	32/50 (64%)	41/50 (82%)	30/50 (60%)
POLY-3 RATE (b)	28/45.04	32/45.50	41/48.57	30/46.75
POLY-3 PERCENT (g)	62.2%	70.3%	84.4%	64.2%
TERMINAL (d)	19/30 (63%)	23/33 (70%)	29/33 (88%)	19/30 (63%)
FIRST INCIDENCE	534	492	516	532
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.395N	P=0.267	P=0.009**	P=0.507
POLY 1.5	P=0.426N	P=0.243	P=0.006**	P=0.470
POLY 6	P=0.362N	P=0.319	P=0.014*	P=0.558
COCH-ARM / FISHERS	P=0.506N	P=0.270	P=0.004**	P=0.420
MAX-ISO-POLY-3	P=0.150	P=0.199	P=0.005**	P=0.418



Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney: Renal Tubule Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	0/41.92	1/42.23	1/44.19	3/43.95
POLY-3 PERCENT (g)	0%	2.4%	2.3%	6.8%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	1/33 (3%)	3/30 (10%)
FIRST INCIDENCE	---	731 (T)	731 (T)	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.071	P=0.501	P=0.511	P=0.127
POLY 1.5	P=0.069	P=0.499	P=0.507	P=0.124
POLY 6	P=0.072	P=0.507	P=0.514	P=0.130
COCH-ARM / FISHERS	P=0.066	P=0.500	P=0.500	P=0.121
MAX-ISO-POLY-3	P=0.053	P=0.160	P=0.172	P=0.045*

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Larynx</b>				
<b>Infiltration Cellular Mixed Cell</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	9/50 (18%)	18/50 (36%)	22/50 (44%)
POLY-3 RATE (b)	0/41.92	9/43.76	18/46.02	22/46.23
POLY-3 PERCENT (g)	0%	20.6%	39.1%	47.6%
TERMINAL (d)	0/30 (0%)	6/33 (18%)	12/33 (36%)	14/30 (47%)
FIRST INCIDENCE	---	104	613	532
<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<0.001**	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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Larynx</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.92	2/42.23	0/44.19	1/43.95
POLY-3 PERCENT (g)	0%	4.7%	0%	2.3%
TERMINAL (d)	0/30 (0%)	2/33 (6%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	---	731 (T)	---	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.632	P=0.238	(e)	P=0.509
POLY 1.5	P=0.626	P=0.235	(e)	P=0.506
POLY 6	P=0.639	P=0.244	(e)	P=0.513
COCH-ARM / FISHERS	P=0.619	P=0.247	(e)	P=0.500
MAX-ISO-POLY-3	P=0.347	P=0.077	(e)	P=0.170

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Larynx: Epiglottis Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	24/50 (48%)	41/50 (82%)	50/50 (100%)
POLY-3 RATE (b)	1/41.98	24/43.62	41/49.19	50/50.00
POLY-3 PERCENT (g)	2.4%	55%	83.4%	100%
TERMINAL (d)	0/30 (0%)	20/33 (61%)	27/33 (82%)	30/30 (100%)
FIRST INCIDENCE	716	104	516	436
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Larynx: Epiglottis Metaplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	49/50 (98%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	0/41.92	49/49.39	50/50.00	50/50.00
POLY-3 PERCENT (g)	0%	99.2%	100%	100%
TERMINAL (d)	0/30 (0%)	33/33 (100%)	33/33 (100%)	30/30 (100%)
FIRST INCIDENCE	---	104	516	436
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Angiectasis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	4/50 (8%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.92	4/42.25	1/44.19	0/43.95
POLY-3 PERCENT (g)	0%	9.5%	2.3%	0%
TERMINAL (d)	0/30 (0%)	3/33 (9%)	1/33 (3%)	0/30 (0%)
FIRST INCIDENCE	---	725	731 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.190N	P=0.061	P=0.511	(e)
POLY 1.5	P=0.196N	P=0.059	P=0.507	(e)
POLY 6	P=0.183N	P=0.064	P=0.514	(e)
COCH-ARM / FISHERS	P=0.205N	P=0.059	P=0.500	(e)
MAX-ISO-POLY-3	P=0.158N	P=0.020*	P=0.172	(e)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Basophilic Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	21/50 (42%)	30/50 (60%)	24/50 (48%)	25/50 (50%)
POLY-3 RATE (b)	21/43.73	30/43.09	24/45.32	25/45.37
POLY-3 PERCENT (g)	48%	69.6%	53%	55.1%
TERMINAL (d)	16/30 (53%)	26/33 (79%)	21/33 (64%)	17/30 (57%)
FIRST INCIDENCE	536	638	590	603
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.485N	P=0.026*	P=0.398	P=0.320
POLY 1.5	P=0.516N	P=0.030*	P=0.379	P=0.300
POLY 6	P=0.446N	P=0.026*	P=0.414	P=0.351
COCH-ARM / FISHERS	P=0.524	P=0.055	P=0.344	P=0.274
MAX-ISO-POLY-3	P=0.229	P=0.016*	P=0.320	P=0.251

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Clear Cell Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	16/50 (32%)	4/50 (8%)	8/50 (16%)
POLY-3 RATE (b)	6/41.92	16/42.95	4/44.19	8/44.04
POLY-3 PERCENT (g)	14.3%	37.3%	9.1%	18.2%
TERMINAL (d)	6/30 (20%)	13/33 (39%)	4/33 (12%)	7/30 (23%)
FIRST INCIDENCE	731 (T)	603	731 (T)	708
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.308N	P=0.013*	P=0.336N	P=0.424
POLY 1.5	P=0.323N	P=0.012*	P=0.349N	P=0.409
POLY 6	P=0.292N	P=0.016*	P=0.323N	P=0.442
COCH-ARM / FISHERS	P=0.351N	P=0.014*	P=0.370N	P=0.387
MAX-ISO-POLY-3	P=0.120N	P=0.007**	P=0.230N	P=0.319



Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Eosinophilic Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	2/42.41	3/42.23	0/44.19	2/44.04
POLY-3 PERCENT (g)	4.7%	7.1%	0%	4.5%
TERMINAL (d)	1/30 (3%)	3/33 (9%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	585	731 (T)	---	708
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.565N	P=0.498	P=0.228N	P=0.681N
POLY 1.5	P=0.567N	P=0.494	P=0.231N	P=0.685N
POLY 6	P=0.562N	P=0.507	P=0.225N	P=0.676N
COCH-ARM / FISHERS	P=0.573N	P=0.500	P=0.247N	P=0.691N
MAX-ISO-POLY-3	P=0.325N	P=0.322	P=0.076N	P=0.484N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Fatty Change</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	2/42.33	0/42.23	3/44.91	0/43.95
POLY-3 PERCENT (g)	4.7%	0%	6.7%	0%
TERMINAL (d)	1/30 (3%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	613	---	633	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.269N	P=0.237N	P=0.527	P=0.229N
POLY 1.5	P=0.271N	P=0.240N	P=0.517	P=0.232N
POLY 6	P=0.269N	P=0.233N	P=0.539	P=0.226N
COCH-ARM / FISHERS	P=0.285N	P=0.247N	P=0.500	P=0.247N
MAX-ISO-POLY-3	P=0.160N	P=0.076N	P=0.351	P=0.076N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Hepatodiaphragmatic Nodule				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/41.92	0/42.23	1/44.56	1/44.02
POLY-3 PERCENT (g)	0%	0%	2.2%	2.3%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	626	712
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Inflammation Granulomatous</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/41.92	3/42.23	0/44.19	2/44.32
POLY-3 PERCENT (g)	2.4%	7.1%	0%	4.5%
TERMINAL (d)	1/30 (3%)	3/33 (9%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	731 (T)	731 (T)	---	626
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.584	P=0.307	P=0.489N	P=0.519
POLY 1.5	P=0.577	P=0.302	P=0.493N	P=0.512
POLY 6	P=0.592	P=0.317	P=0.486N	P=0.529
COCH-ARM / FISHERS	P=0.567	P=0.309	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.434N	P=0.156	P=0.158N	P=0.302

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Mixed Cell Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	5/50 (10%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/42.03	5/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	7.1%	11.8%	0%	0%
TERMINAL (d)	2/30 (7%)	5/33 (15%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	702	731 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.030N*	P=0.358	P=0.110N	P=0.110N
POLY 1.5	P=0.031N*	P=0.351	P=0.113N	P=0.114N
POLY 6	P=0.029N*	P=0.371	P=0.106N	P=0.107N
COCH-ARM / FISHERS	P=0.034N*	P=0.357	P=0.121N	P=0.121N
MAX-ISO-POLY-3	P=0.031N*	P=0.232	P=0.038N*	P=0.038N*

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver: Bile Duct Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/41.92	0/42.23	2/44.19	1/43.95
POLY-3 PERCENT (g)	0%	0%	4.5%	2.3%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	2/33 (6%)	1/30 (3%)
FIRST INCIDENCE	---	---	731 (T)	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.399	(e)	P=0.249	P=0.509
POLY 1.5	P=0.393	(e)	P=0.245	P=0.506
POLY 6	P=0.403	(e)	P=0.253	P=0.513
COCH-ARM / FISHERS	P=0.377	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.195	(e)	P=0.087	P=0.170

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver: Bile Duct Dilatation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.92	1/42.23	1/44.56	0/43.95
POLY-3 PERCENT (g)	0%	2.4%	2.2%	0%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	731 (T)	626	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver: Bile Duct Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	8/50 (16%)	6/50 (12%)	4/50 (8%)
POLY-3 RATE (b)	2/41.92	8/42.23	6/44.66	4/44.56
POLY-3 PERCENT (g)	4.8%	18.9%	13.4%	9%
TERMINAL (d)	2/30 (7%)	8/33 (24%)	4/33 (12%)	3/30 (10%)
FIRST INCIDENCE	731 (T)	731 (T)	646	532
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.439N	P=0.045*	P=0.153	P=0.365
POLY 1.5	P=0.456N	P=0.043*	P=0.146	P=0.354
POLY 6	P=0.421N	P=0.048*	P=0.163	P=0.378
COCH-ARM / FISHERS	P=0.487N	P=0.046*	P=0.134	P=0.339
MAX-ISO-POLY-3	P=0.167	P=0.021*	P=0.088	P=0.229



Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
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Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung Fibrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	35/50 (70%)	49/50 (98%)	50/50 (100%)
POLY-3 RATE (b)	5/42.72	35/45.36	49/49.35	50/50.00
POLY-3 PERCENT (g)	11.7%	77.2%	99.3%	100%
TERMINAL (d)	3/30 (10%)	26/33 (79%)	33/33 (100%)	30/30 (100%)
FIRST INCIDENCE	547	586	516	436
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung</b>				
<b>Infiltration Cellular Histiocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	16/50 (32%)	48/50 (96%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	16/44.52	48/48.93	50/50.00	50/50.00
POLY-3 PERCENT (g)	35.9%	98.1%	100%	100%
TERMINAL (d)	9/30 (30%)	33/33 (100%)	33/33 (100%)	30/30 (100%)
FIRST INCIDENCE	547	346	516	436
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	46/50 (92%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	6/42.78	46/48.91	50/50.00	50/50.00
POLY-3 PERCENT (g)	14%	94.1%	100%	100%
TERMINAL (d)	3/30 (10%)	32/33 (97%)	33/33 (100%)	30/30 (100%)
FIRST INCIDENCE	576	346	516	436
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung: Alveolar Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	8/50 (16%)	43/50 (86%)	49/50 (98%)	50/50 (100%)
POLY-3 RATE (b)	8/42.54	43/46.51	49/49.35	50/50.00
POLY-3 PERCENT (g)	18.8%	92.5%	99.3%	100%
TERMINAL (d)	6/30 (20%)	32/33 (97%)	33/33 (100%)	30/30 (100%)
FIRST INCIDENCE	615	492	516	436
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung: Alveolar Epithelium Metaplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	3/50 (6%)	9/50 (18%)	21/50 (42%)
POLY-3 RATE (b)	0/41.92	3/42.23	9/44.62	21/45.03
POLY-3 PERCENT (g)	0%	7.1%	20.2%	46.6%
TERMINAL (d)	0/30 (0%)	3/33 (9%)	8/33 (24%)	17/30 (57%)
FIRST INCIDENCE	---	731 (T)	604	603
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.119	P=0.002**	P<0.001**
POLY 1.5	P<0.001**	P=0.117	P=0.002**	P<0.001**
POLY 6	P<0.001**	P=0.124	P=0.002**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.121	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.039*	P<0.001**	P<0.001**

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung: Alveolar/Bronchiolar Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	9/50 (18%)	31/50 (62%)	50/50 (100%)
POLY-3 RATE (b)	2/42.52	9/43.14	31/46.33	50/50.00
POLY-3 PERCENT (g)	4.7%	20.9%	66.9%	100%
TERMINAL (d)	1/30 (3%)	7/33 (21%)	24/33 (73%)	30/30 (100%)
FIRST INCIDENCE	536	492	590	436
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.025*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.024*	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.028*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.026*	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.012*	P<0.001**	P<0.001**

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung: Alveolus Proteinosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	15/50 (30%)	41/50 (82%)	48/50 (96%)
POLY-3 RATE (b)	1/42.31	15/43.60	41/48.69	48/49.66
POLY-3 PERCENT (g)	2.4%	34.4%	84.2%	96.7%
TERMINAL (d)	0/30 (0%)	11/33 (33%)	27/33 (82%)	30/30 (100%)
FIRST INCIDENCE	618	603	516	436
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung: Bronchus-Associated Lymphoid Tissue Hyperplasia Lymphohistiocytic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	7/50 (14%)	10/50 (20%)
POLY-3 RATE (b)	0/41.92	2/42.23	7/44.50	10/44.81
POLY-3 PERCENT (g)	0%	4.7%	15.7%	22.3%
TERMINAL (d)	0/30 (0%)	2/33 (6%)	6/33 (18%)	6/30 (20%)
FIRST INCIDENCE	---	731 (T)	646	572
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.238	P=0.009**	P<0.001**
POLY 1.5	P<0.001**	P=0.235	P=0.009**	P<0.001**
POLY 6	P<0.001**	P=0.244	P=0.010**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.247	P=0.006**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.077	P=0.003**	P<0.001**



Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node, Bronchial Hyperplasia Lymphohistiocytic</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/37 (3%)	18/37 (49%)	37/44 (84%)	31/36 (86%)
POLY-3 RATE (b)	1/30.60	18/31.85	37/42.70	31/35.22
POLY-3 PERCENT (g)	3.3%	56.5%	86.6%	88%
TERMINAL (d)	1/21 (5%)	16/23 (70%)	24/29 (83%)	17/20 (85%)
FIRST INCIDENCE	731 (T)	492	593	436
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node, Mediastinal Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/46 (11%)	0/49 (0%)	1/46 (2%)	1/45 (2%)
POLY-3 RATE (b)	5/39.51	0/42.23	1/40.56	1/39.13
POLY-3 PERCENT (g)	12.7%	0%	2.5%	2.6%
TERMINAL (d)	2/27 (7%)	0/33 (0%)	0/30 (0%)	1/26 (4%)
FIRST INCIDENCE	536	---	689	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.223N	P=0.025N*	P=0.094N	P=0.102N
POLY 1.5	P=0.222N	P=0.025N*	P=0.096N	P=0.103N
POLY 6	P=0.226N	P=0.023N*	P=0.092N	P=0.101N
COCH-ARM / FISHERS	P=0.228N	P=0.024N*	P=0.102N	P=0.107N
MAX-ISO-POLY-3	P=0.012N*	P=0.008N**	P=0.042N*	P=0.044N*

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node, Mediastinal Hyperplasia Lymphohistiocytic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/46 (0%)	11/49 (22%)	14/46 (30%)	28/45 (62%)
POLY-3 RATE (b)	0/38.01	11/42.84	14/42.23	28/42.40
POLY-3 PERCENT (g)	0%	25.7%	33.2%	66%
TERMINAL (d)	0/27 (0%)	10/33 (30%)	8/30 (27%)	18/26 (69%)
FIRST INCIDENCE	---	533	593	436
<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: 20523 - 03  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Metal working fluids (Trim VX)  
CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
Time Report Requested: 10:15:41  
First Dose M/F: 07/20/09 / 07/20/09  
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node: Iliac Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/4 (0%)	0/1 (0%)	0/2 (0%)	0/1 (0%)
POLY-3 RATE (b)	0/2.19	0/1.00	0/1.36	0/0.92
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node: Lumbar Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/4 (75%)	0/1 (0%)	0/2 (0%)	0/1 (0%)
POLY-3 RATE (b)	3/3.60	0/1.00	0/1.36	0/0.92
POLY-3 PERCENT (g)	83.4%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	536	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.232N	P=0.321N	P=0.202N	P=0.367N
POLY 1.5	P=0.231N	P=0.368N	P=0.176N	P=0.389N
POLY 6	P=0.237N	P=0.224N	P=0.284N	P=0.332N
COCH-ARM / FISHERS	P=0.254N	P=0.400N	P=0.200N	P=0.400N
MAX-ISO-POLY-3	P=0.106N	P=0.054N	P=0.044N*	P=0.069N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node: Renal Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/4 (25%)	0/1 (0%)	0/2 (0%)	0/1 (0%)
POLY-3 RATE (b)	1/2.80	0/1.00	0/1.36	0/0.92
POLY-3 PERCENT (g)	35.7%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	536	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mammary Gland Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	0/50 (0%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	3/42.43	0/42.23	4/44.35	3/44.94
POLY-3 PERCENT (g)	7.1%	0%	9%	6.7%
TERMINAL (d)	2/30 (7%)	0/33 (0%)	3/33 (9%)	0/30 (0%)
FIRST INCIDENCE	576	---	689	593
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.417	P=0.119N	P=0.524	P=0.636N
POLY 1.5	P=0.406	P=0.121N	P=0.515	P=0.646N
POLY 6	P=0.426	P=0.115N	P=0.533	P=0.623N
COCH-ARM / FISHERS	P=0.381	P=0.121N	P=0.500	P=0.661N
MAX-ISO-POLY-3	P=0.326	P=0.038N*	P=0.372	P=0.471N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mammary Gland: Duct Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	7/50 (14%)	6/50 (12%)	2/50 (4%)
POLY-3 RATE (b)	4/43.35	7/44.70	6/46.30	2/43.97
POLY-3 PERCENT (g)	9.2%	15.7%	13%	4.6%
TERMINAL (d)	1/30 (3%)	2/33 (6%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	536	346	516	725
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.130N	P=0.278	P=0.411	P=0.330N
POLY 1.5	P=0.129N	P=0.266	P=0.395	P=0.332N
POLY 6	P=0.134N	P=0.296	P=0.429	P=0.330N
COCH-ARM / FISHERS	P=0.133N	P=0.262	P=0.370	P=0.339N
MAX-ISO-POLY-3	P=0.184N	P=0.185	P=0.295	P=0.197N



Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mesentery: Fat Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/4 (100%)	4/5 (80%)	7/9 (78%)	4/4 (100%)
POLY-3 RATE (b)	4/4.00	4/4.52	7/8.36	4/4.00
POLY-3 PERCENT (g)	100%	88.6%	83.7%	100%
TERMINAL (d)	2/2 (100%)	3/3 (100%)	4/4 (100%)	2/2 (100%)
FIRST INCIDENCE	535	533	593	661
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.688	P=0.826N	P=0.551N	(e)
POLY 1.5	P=0.616	P=0.676N	P=0.486N	(e)
POLY 6	P=0.816	P=0.995N	P=0.685N	(e)
COCH-ARM / FISHERS	P=0.550	P=0.556N	P=0.462N	(e)
MAX-ISO-POLY-3	P=0.420	P=0.190N	P=0.202N	(e)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	46/50 (92%)	47/49 (96%)	48/50 (96%)
POLY-3 RATE (b)	1/41.92	46/47.62	47/48.84	48/49.82
POLY-3 PERCENT (g)	2.4%	96.6%	96.2%	96.4%
TERMINAL (d)	1/30 (3%)	32/33 (97%)	32/33 (97%)	29/30 (97%)
FIRST INCIDENCE	731 (T)	354	516	436
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Goblet Cell Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	36/50 (72%)	40/49 (82%)	47/50 (94%)
POLY-3 RATE (b)	3/42.05	36/45.28	40/48.15	47/49.82
POLY-3 PERCENT (g)	7.1%	79.5%	83.1%	94.3%
TERMINAL (d)	2/30 (7%)	27/33 (82%)	28/33 (85%)	29/30 (97%)
FIRST INCIDENCE	697	533	516	436
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Olfactory Epithelium Accumulation, Hyaline Droplet</b>				
<b>LESION RATES</b>				
OVERALL (a)	14/50 (28%)	50/50 (100%)	49/49 (100%)	50/50 (100%)
POLY-3 RATE (b)	14/43.68	50/50.00	49/49.00	50/50.00
POLY-3 PERCENT (g)	32.1%	100%	100%	100%
TERMINAL (d)	9/30 (30%)	33/33 (100%)	33/33 (100%)	30/30 (100%)
FIRST INCIDENCE	547	104	516	436
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Olfactory Epithelium Metaplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/41.92	0/42.23	0/43.84	2/44.19
POLY-3 PERCENT (g)	0%	0%	0%	4.5%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	687
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.044*	(e)	(e)	P=0.249
POLY 1.5	P=0.043*	(e)	(e)	P=0.244
POLY 6	P=0.044*	(e)	(e)	P=0.255
COCH-ARM / FISHERS	P=0.042*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.045*	(e)	(e)	P=0.087

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Olfactory Epithelium, Glands Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	32/50 (64%)	44/49 (90%)	46/50 (92%)
POLY-3 RATE (b)	0/41.92	32/46.27	44/48.19	46/49.14
POLY-3 PERCENT (g)	0%	69.2%	91.3%	93.6%
TERMINAL (d)	0/30 (0%)	22/33 (67%)	30/33 (91%)	29/30 (97%)
FIRST INCIDENCE	---	354	590	436
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Respiratory Epithelium Accumulation, Hyaline Droplet</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	50/50 (100%)	48/49 (98%)	50/50 (100%)
POLY-3 RATE (b)	5/42.53	50/50.00	48/49.00	50/50.00
POLY-3 PERCENT (g)	11.8%	100%	98%	100%
TERMINAL (d)	4/30 (13%)	33/33 (100%)	32/33 (97%)	30/30 (100%)
FIRST INCIDENCE	534	104	516	436
<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: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Respiratory Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	7/50 (14%)	8/49 (16%)	25/50 (50%)
POLY-3 RATE (b)	0/41.92	7/42.83	8/44.85	25/46.56
POLY-3 PERCENT (g)	0%	16.3%	17.8%	53.7%
TERMINAL (d)	0/30 (0%)	5/33 (15%)	5/33 (15%)	16/30 (53%)
FIRST INCIDENCE	---	635	590	532
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.008**	P=0.005**	P<0.001**
POLY 1.5	P<0.001**	P=0.007**	P=0.004**	P<0.001**
POLY 6	P<0.001**	P=0.009**	P=0.006**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.006**	P=0.003**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.003**	P=0.002**	P<0.001**



Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Transitional Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	11/50 (22%)	4/49 (8%)	21/50 (42%)
POLY-3 RATE (b)	5/42.65	11/42.56	4/44.00	21/45.14
POLY-3 PERCENT (g)	11.7%	25.9%	9.1%	46.5%
TERMINAL (d)	2/30 (7%)	9/33 (27%)	3/33 (9%)	14/30 (47%)
FIRST INCIDENCE	615	663	689	609
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.079	P=0.480N	P<0.001**
POLY 1.5	P<0.001**	P=0.078	P=0.492N	P<0.001**
POLY 6	P<0.001**	P=0.084	P=0.472N	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.086	P=0.513N	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.045*	P=0.347N	P<0.001**

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Transitional Epithelium Metaplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	5/50 (10%)	1/49 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/42.13	5/42.30	1/43.84	2/44.13
POLY-3 PERCENT (g)	2.4%	11.8%	2.3%	4.5%
TERMINAL (d)	0/30 (0%)	4/33 (12%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	674	713	731 (T)	684
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.477N	P=0.101	P=0.752N	P=0.516
POLY 1.5	P=0.484N	P=0.099	P=0.757N	P=0.510
POLY 6	P=0.469N	P=0.106	P=0.748N	P=0.523
COCH-ARM / FISHERS	P=0.494N	P=0.102	P=0.747	P=0.500
MAX-ISO-POLY-3	P=0.359	P=0.044*	P=0.488N	P=0.298

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Ovary Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	9/50 (18%)	10/50 (20%)	12/50 (24%)	10/50 (20%)
POLY-3 RATE (b)	9/42.61	10/43.48	12/45.35	10/44.46
POLY-3 PERCENT (g)	21.1%	23%	26.5%	22.5%
TERMINAL (d)	7/30 (23%)	7/33 (21%)	9/33 (27%)	8/30 (27%)
FIRST INCIDENCE	547	354	604	613
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.556	P=0.520	P=0.368	P=0.542
POLY 1.5	P=0.545	P=0.502	P=0.346	P=0.525
POLY 6	P=0.564	P=0.547	P=0.394	P=0.560
COCH-ARM / FISHERS	P=0.516	P=0.500	P=0.312	P=0.500
MAX-ISO-POLY-3	P=0.565	P=0.415	P=0.284	P=0.438

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pancreas: Acinus Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	2/50 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	4/41.92	2/42.23	2/44.19	1/44.01
POLY-3 PERCENT (g)	9.5%	4.7%	4.5%	2.3%
TERMINAL (d)	4/30 (13%)	2/33 (6%)	2/33 (6%)	0/30 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	731 (T)	716
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.179N	P=0.333N	P=0.313N	P=0.163N
POLY 1.5	P=0.182N	P=0.340N	P=0.322N	P=0.170N
POLY 6	P=0.178N	P=0.320N	P=0.303N	P=0.157N
COCH-ARM / FISHERS	P=0.191N	P=0.339N	P=0.339N	P=0.181N
MAX-ISO-POLY-3	P=0.114N	P=0.198N	P=0.188N	P=0.079N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Parathyroid Gland Fibrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/42 (0%)	2/43 (5%)	1/47 (2%)	0/47 (0%)
POLY-3 RATE (b)	0/35.30	2/38.82	1/41.61	0/41.13
POLY-3 PERCENT (g)	0%	5.2%	2.4%	0%
TERMINAL (d)	0/26 (0%)	0/31 (0%)	1/32 (3%)	0/28 (0%)
FIRST INCIDENCE	---	346	731 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.342N	P=0.258	P=0.533	(e)
POLY 1.5	P=0.347N	P=0.252	P=0.529	(e)
POLY 6	P=0.338N	P=0.266	P=0.536	(e)
COCH-ARM / FISHERS	P=0.356N	P=0.253	P=0.528	(e)
MAX-ISO-POLY-3	P=0.340N	P=0.095	P=0.191	(e)

Experiment Number: 20523 - 03  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Metal working fluids (Trim VX)  
CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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First Dose M/F: 07/20/09 / 07/20/09  
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Peripheral Nerve: Axon Degeneration</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/4 (0%)	0/3 (0%)	0/2 (0%)	0/3 (0%)
POLY-3 RATE (b)	0/2.42	0/1.43	0/1.15	0/2.19
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pituitary Gland Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.92	1/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	0%	2.4%	0%	0%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	731 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pituitary Gland: Pars Distalis Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	13/50 (26%)	12/50 (24%)	16/50 (32%)
POLY-3 RATE (b)	4/41.92	13/42.55	12/45.11	16/45.80
POLY-3 PERCENT (g)	9.5%	30.6%	26.6%	34.9%
TERMINAL (d)	4/30 (13%)	11/33 (33%)	9/33 (27%)	8/30 (27%)
FIRST INCIDENCE	731 (T)	649	613	593
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.030*	P=0.014*	P=0.035*	P=0.004**
POLY 1.5	P=0.024*	P=0.013*	P=0.031*	P=0.003**
POLY 6	P=0.039*	P=0.016*	P=0.040*	P=0.005**
COCH-ARM / FISHERS	P=0.019*	P=0.016*	P=0.027*	P=0.003**
MAX-ISO-POLY-3	P=0.007**	P=0.007**	P=0.022*	P=0.002**



Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pituitary Gland: Pars Intermedia Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.92	1/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	0%	2.4%	0%	0%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	731 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Metal working fluids (Trim VX)  
CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
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First Dose M/F: 07/20/09 / 07/20/09  
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<hr/>				
Skin				
Cyst Epithelial Inclusion				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/41.92	0/42.23	1/44.60	0/43.95
POLY-3 PERCENT (g)	2.4%	0%	2.2%	0%
TERMINAL (d)	1/30 (3%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	731 (T)	---	613	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Skin Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/41.92	1/42.48	1/44.39	1/44.56
POLY-3 PERCENT (g)	0%	2.4%	2.3%	2.2%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	663	677	532
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (Trim VX)  
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014  
 Time Report Requested: 10:15:41  
 First Dose M/F: 07/20/09 / 07/20/09  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Skin</b>				
<b>Ulcer</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	0/50 (0%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	6/42.65	0/42.23	3/44.91	2/44.13
POLY-3 PERCENT (g)	14.1%	0%	6.7%	4.5%
TERMINAL (d)	4/30 (13%)	0/33 (0%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	576	---	613	684
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.299N	P=0.015N*	P=0.216N	P=0.121N
POLY 1.5	P=0.302N	P=0.016N*	P=0.226N	P=0.126N
POLY 6	P=0.301N	P=0.014N*	P=0.206N	P=0.116N
COCH-ARM / FISHERS	P=0.319N	P=0.013N*	P=0.243N	P=0.134N
MAX-ISO-POLY-3	P=0.041N*	P=0.005N**	P=0.133N	P=0.064N

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
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 Species/Strain: RATS/Wistar Han

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Spleen</b>				
<b>Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	13/50 (26%)	7/50 (14%)	11/50 (22%)	9/50 (18%)
POLY-3 RATE (b)	13/45.72	7/43.69	11/47.82	9/45.03
POLY-3 PERCENT (g)	28.4%	16%	23%	20%
TERMINAL (d)	4/30 (13%)	2/33 (6%)	2/33 (6%)	4/30 (13%)
FIRST INCIDENCE	352	586	516	593
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.379N	P=0.123N	P=0.358N	P=0.243N
POLY 1.5	P=0.375N	P=0.122N	P=0.379N	P=0.240N
POLY 6	P=0.390N	P=0.119N	P=0.333N	P=0.247N
COCH-ARM / FISHERS	P=0.386N	P=0.105N	P=0.408N	P=0.235N
MAX-ISO-POLY-3	P=0.263N	P=0.083N	P=0.279N	P=0.175N

Experiment Number: 20523 - 03  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Spleen: Lymphoid Follicle Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	2/50 (4%)	6/50 (12%)	7/50 (14%)
POLY-3 RATE (b)	2/42.54	2/43.38	6/45.91	7/46.03
POLY-3 PERCENT (g)	4.7%	4.6%	13.1%	15.2%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	585	492	516	532
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.051	P=0.687N	P=0.158	P=0.098
POLY 1.5	P=0.046*	P=0.694N	P=0.148	P=0.090
POLY 6	P=0.056	P=0.677N	P=0.171	P=0.110
COCH-ARM / FISHERS	P=0.039*	P=0.691N	P=0.134	P=0.080
MAX-ISO-POLY-3	P=0.081	P=0.491N	P=0.093	P=0.056

Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
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 Species/Strain: RATS/Wistar Han

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Stomach, Forestomach Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.52	0/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	4.7%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	645	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.258N	P=0.238N	P=0.228N	P=0.230N
POLY 1.5	P=0.256N	P=0.240N	P=0.231N	P=0.232N
POLY 6	P=0.260N	P=0.235N	P=0.227N	P=0.228N
COCH-ARM / FISHERS	P=0.260N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.035N*	P=0.077N	P=0.076N	P=0.076N

Experiment Number: 20523 - 03  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Stomach, Forestomach: Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.52	0/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	4.7%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	645	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.258N	P=0.238N	P=0.228N	P=0.230N
POLY 1.5	P=0.256N	P=0.240N	P=0.231N	P=0.232N
POLY 6	P=0.260N	P=0.235N	P=0.227N	P=0.228N
COCH-ARM / FISHERS	P=0.260N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.035N*	P=0.077N	P=0.076N	P=0.076N



Experiment Number: 20523 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (Trim VX)  
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Date Report Requested: 10/29/2014  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Thymus Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	14/48 (29%)	12/49 (24%)	21/49 (43%)	15/49 (31%)
POLY-3 RATE (b)	14/44.88	12/43.85	21/44.87	15/45.68
POLY-3 PERCENT (g)	31.2%	27.4%	46.8%	32.8%
TERMINAL (d)	4/28 (14%)	7/33 (21%)	14/32 (44%)	8/29 (28%)
FIRST INCIDENCE	352	586	593	436
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.469	P=0.435N	P=0.093	P=0.523
POLY 1.5	P=0.467	P=0.428N	P=0.102	P=0.525
POLY 6	P=0.462	P=0.434N	P=0.084	P=0.518
COCH-ARM / FISHERS	P=0.441	P=0.386N	P=0.116	P=0.527
MAX-ISO-POLY-3	P=0.234	P=0.348N	P=0.062	P=0.432

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Thymus Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/48 (0%)	1/49 (2%)	2/49 (4%)	0/49 (0%)
POLY-3 RATE (b)	0/39.92	1/42.12	2/43.19	0/42.95
POLY-3 PERCENT (g)	0%	2.4%	4.6%	0%
TERMINAL (d)	0/28 (0%)	1/33 (3%)	2/32 (6%)	0/29 (0%)
FIRST INCIDENCE	---	731 (T)	731 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.481N	P=0.511	P=0.255	(e)
POLY 1.5	P=0.487N	P=0.506	P=0.250	(e)
POLY 6	P=0.475N	P=0.518	P=0.260	(e)
COCH-ARM / FISHERS	P=0.499N	P=0.505	P=0.253	(e)
MAX-ISO-POLY-3	P=0.348N	P=0.171	P=0.092	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Thyroid Gland: C-Cell Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	40/49 (82%)	44/50 (88%)	45/50 (90%)	42/50 (84%)
POLY-3 RATE (b)	40/47.40	44/47.65	45/48.71	42/48.05
POLY-3 PERCENT (g)	84.4%	92.3%	92.4%	87.4%
TERMINAL (d)	24/29 (83%)	30/33 (91%)	32/33 (97%)	28/30 (93%)
FIRST INCIDENCE	352	354	516	436
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.538N	P=0.175	P=0.167	P=0.445
POLY 1.5	P=0.505N	P=0.172	P=0.173	P=0.461
POLY 6	P=0.586	P=0.207	P=0.158	P=0.420
COCH-ARM / FISHERS	P=0.522N	P=0.274	P=0.183	P=0.482
MAX-ISO-POLY-3	P=0.236	P=0.102	P=0.097	P=0.326

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Thyroid Gland: Follicle Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/49 (4%)	4/50 (8%)	7/50 (14%)	3/50 (6%)
POLY-3 RATE (b)	2/41.41	4/42.79	7/44.60	3/43.95
POLY-3 PERCENT (g)	4.8%	9.4%	15.7%	6.8%
TERMINAL (d)	1/29 (3%)	2/33 (6%)	6/33 (18%)	3/30 (10%)
FIRST INCIDENCE	585	635	614	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.535N	P=0.352	P=0.096	P=0.527
POLY 1.5	P=0.542N	P=0.344	P=0.092	P=0.520
POLY 6	P=0.532N	P=0.367	P=0.101	P=0.534
COCH-ARM / FISHERS	P=0.562N	P=0.349	P=0.085	P=0.510
MAX-ISO-POLY-3	P=0.257	P=0.214	P=0.054	P=0.351

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Uterus: Endometrium Hyperplasia Cystic</b>				
<b>LESION RATES</b>				
OVERALL (a)	12/50 (24%)	11/50 (22%)	12/50 (24%)	10/50 (20%)
POLY-3 RATE (b)	12/43.10	11/44.46	12/44.93	10/44.41
POLY-3 PERCENT (g)	27.8%	24.7%	26.7%	22.5%
TERMINAL (d)	9/30 (30%)	6/33 (18%)	10/33 (30%)	9/30 (30%)
FIRST INCIDENCE	547	354	516	593
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.362N	P=0.465N	P=0.548N	P=0.371N
POLY 1.5	P=0.363N	P=0.491N	P=0.563N	P=0.384N
POLY 6	P=0.369N	P=0.425N	P=0.537N	P=0.360N
COCH-ARM / FISHERS	P=0.381N	P=0.500N	P=0.592N	P=0.405N
MAX-ISO-POLY-3	P=0.462N	P=0.371N	P=0.452N	P=0.286N

**Experiment Number:** 20523 - 03  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/Wistar Han

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Metal working fluids (Trim VX)

**CAS Number:** TRIMVX

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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 \*\*\*