

Experiment Number: 20515 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (CIMSTAR 3800)
CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
Time Report Requested: 08:51:01
First Dose M/F: 04/14/08 / 04/14/08
Lab: BNW

F1_Rev.1_RE

NTP Study Number: C20515
Lock Date: 01/12/2011
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.1.1_001
PWG Approval Date: 02/21/2013

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF METAL WORKING FLUIDS (CIMSTAR 3800)

MALE RATS

Organ

Epididymis
Harderian Gland
Heart
Kidney

Kidney: Renal Tubule
Larynx
Liver

Lung
Lung: Alveolar Epithelium
Lung: Bronchus-Associated Lymphoid Tissue
Lymph Node, Bronchial
Lymph Node, Mediastinal
Lymph Node, Mesenteric
Lymph Node: Renal
Mesentery: Fat
Nose
Nose: Goblet Cell
Nose: Olfactory Epithelium
Nose: Olfactory Epithelium, Glands
Nose: Respiratory Epithelium
Pancreas
Skin
Testes
Thyroid Gland: Follicular Cell

FEMALE RATS

Organ

Adrenal Cortex

Morphology

Granuloma Sperm
Hyperplasia
Cardiomyopathy
Cyst
Inflammation
Hyperplasia
Metaplasia
Basophilic Focus
Clear Cell Focus
Mixed Cell Focus
Inflammation Lymphohistiocytic
Hyperplasia
Hyperplasia Lymphohistiocytic
Hyperplasia Lymphohistiocytic
Hyperplasia Lymphohistiocytic
Ectasia
Ectasia
Necrosis
Inflammation Chronic
Hyperplasia
Accumulation, Hyaline Droplet
Hyperplasia
Accumulation, Hyaline Droplet
Atrophy
Inflammation Chronic
Atrophy
Hyperplasia

Morphology

Degeneration Cystic
Hyperplasia

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Clitoral Gland	Hypertrophy
Larynx	Inflammation Chronic
	Inflammation Acute
	Metaplasia
Liver	Clear Cell Focus
	Mixed Cell Focus
Liver: Bile Duct	Cyst
Lung	Inflammation Lymphohistiocytic
Lung: Bronchus-Associated Lymphoid Tissue	Hyperplasia Lymphohistiocytic
Lymph Node, Bronchial	Hyperplasia Lymphohistiocytic
Lymph Node, Mediastinal	Hyperplasia Lymphohistiocytic
Mammary Gland	Inflammation Chronic
Nose: Goblet Cell	Hyperplasia
Nose: Olfactory Epithelium	Accumulation, Hyaline Droplet
Nose: Olfactory Epithelium, Glands	Hyperplasia
Nose: Respiratory Epithelium	Accumulation, Hyaline Droplet
Ovary	Cyst
Stomach, Glandular	Necrosis
Thyroid Gland: C-Cell	Hyperplasia
Uterus: Endometrium	Hyperplasia Cystic

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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
Adrenal Cortex				
Angiectasis				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.59	0/42.93	0/45.09	0/43.48
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
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
Adrenal Cortex Degeneration Cystic				
LESION RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	3/49 (6%)	2/50 (4%)
POLY-3 RATE (b)	2/43.97	1/42.93	3/45.73	2/43.48
POLY-3 PERCENT (g)	4.6%	2.3%	6.6%	4.6%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	1/34 (3%)	2/33 (6%)
FIRST INCIDENCE	653	729 (T)	564	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.552	P=0.508N	P=0.518	P=0.690
POLY 1.5	P=0.549	P=0.506N	P=0.507	P=0.689
POLY 6	P=0.555	P=0.510N	P=0.530	P=0.692
COCH-ARM / FISHERS	P=0.552	P=0.500N	P=0.490	P=0.691N
MAX-ISO-POLY-3	P=0.507	P=0.290N	P=0.343	P=0.495

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DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex Hyperplasia				
LESION RATES				
OVERALL (a)	26/50 (52%)	25/50 (50%)	28/49 (57%)	26/50 (52%)
POLY-3 RATE (b)	26/45.41	25/44.10	28/46.22	26/44.65
POLY-3 PERCENT (g)	57.3%	56.7%	60.6%	58.2%
TERMINAL (d)	22/33 (67%)	20/34 (59%)	24/34 (71%)	19/33 (58%)
FIRST INCIDENCE	494	564	564	611
STATISTICAL TESTS				
POLY 3	P=0.511	P=0.565N	P=0.455	P=0.548
POLY 1.5	P=0.505	P=0.546N	P=0.420	P=0.546
POLY 6	P=0.536	P=0.571N	P=0.498	P=0.572
COCH-ARM / FISHERS	P=0.530	P=0.500N	P=0.378	P=0.579N
MAX-ISO-POLY-3	P=0.631	P=0.477N	P=0.371	P=0.461

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex Hypertrophy				
LESION RATES				
OVERALL (a)	20/50 (40%)	21/50 (42%)	14/49 (29%)	16/50 (32%)
POLY-3 RATE (b)	20/44.00	21/43.75	14/45.66	16/44.25
POLY-3 PERCENT (g)	45.5%	48%	30.7%	36.2%
TERMINAL (d)	18/33 (55%)	18/34 (53%)	9/34 (27%)	13/33 (39%)
FIRST INCIDENCE	627	620	639	627
STATISTICAL TESTS				
POLY 3	P=0.184N	P=0.490	P=0.107N	P=0.248N
POLY 1.5	P=0.195N	P=0.487	P=0.129N	P=0.264N
POLY 6	P=0.167N	P=0.508	P=0.083N	P=0.220N
COCH-ARM / FISHERS	P=0.198N	P=0.500	P=0.162N	P=0.266N
MAX-ISO-POLY-3	P=0.160N	P=0.402	P=0.076N	P=0.185N

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DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Medulla Hyperplasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	1/48 (2%)	4/49 (8%)	1/50 (2%)
POLY-3 RATE (b)	2/43.59	1/40.93	4/45.12	1/43.48
POLY-3 PERCENT (g)	4.6%	2.4%	8.9%	2.3%
TERMINAL (d)	2/33 (6%)	1/32 (3%)	3/34 (9%)	1/33 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	722	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.437N	P=0.522N	P=0.353	P=0.501N
POLY 1.5	P=0.441N	P=0.520N	P=0.342	P=0.503N
POLY 6	P=0.430N	P=0.522N	P=0.366	P=0.497N
COCH-ARM / FISHERS	P=0.441N	P=0.515N	P=0.329	P=0.500N
MAX-ISO-POLY-3	P=0.400N	P=0.302N	P=0.218	P=0.281N

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DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Epididymis Granuloma Sperm				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/43.98	0/42.93	0/45.98	0/43.48
POLY-3 PERCENT (g)	4.6%	0%	0%	0%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	619	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.257N	P=0.242N	P=0.227N	P=0.240N
POLY 1.5	P=0.258N	P=0.241N	P=0.231N	P=0.240N
POLY 6	P=0.257N	P=0.243N	P=0.223N	P=0.238N
COCH-ARM / FISHERS	P=0.260N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.037N*	P=0.081N	P=0.076N	P=0.078N

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Eye Cataract				
LESION RATES				
OVERALL (a)	2/50 (4%)	3/50 (6%)	1/48 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/43.59	3/43.73	1/45.02	0/43.48
POLY-3 PERCENT (g)	4.6%	6.9%	2.2%	0%
TERMINAL (d)	2/33 (6%)	2/34 (6%)	1/34 (3%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	429	729 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.112N	P=0.501	P=0.489N	P=0.238N
POLY 1.5	P=0.112N	P=0.500	P=0.498N	P=0.239N
POLY 6	P=0.111N	P=0.505	P=0.479N	P=0.235N
COCH-ARM / FISHERS	P=0.110N	P=0.500	P=0.515N	P=0.247N
MAX-ISO-POLY-3	P=0.117N	P=0.325	P=0.276N	P=0.076N

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Eye: Retina Atrophy				
LESION RATES				
OVERALL (a)	2/50 (4%)	3/50 (6%)	2/48 (4%)	1/50 (2%)
POLY-3 RATE (b)	2/43.59	3/42.93	2/45.02	1/43.48
POLY-3 PERCENT (g)	4.6%	7%	4.4%	2.3%
TERMINAL (d)	2/33 (6%)	3/34 (9%)	2/34 (6%)	1/33 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.307N	P=0.493	P=0.682N	P=0.501N
POLY 1.5	P=0.308N	P=0.494	P=0.692N	P=0.503N
POLY 6	P=0.303N	P=0.494	P=0.672N	P=0.497N
COCH-ARM / FISHERS	P=0.304N	P=0.500	P=0.676	P=0.500N
MAX-ISO-POLY-3	P=0.361N	P=0.319	P=0.487N	P=0.281N

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Harderian Gland Hyperplasia				
LESION RATES				
OVERALL (a)	17/50 (34%)	7/50 (14%)	12/50 (24%)	6/50 (12%)
POLY-3 RATE (b)	17/43.69	7/42.93	12/46.30	6/43.48
POLY-3 PERCENT (g)	38.9%	16.3%	25.9%	13.8%
TERMINAL (d)	16/33 (49%)	7/34 (21%)	9/34 (27%)	6/33 (18%)
FIRST INCIDENCE	704	729 (T)	653	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.031N*	P=0.015N*	P=0.135N	P=0.006N**
POLY 1.5	P=0.033N*	P=0.015N*	P=0.157N	P=0.007N**
POLY 6	P=0.028N*	P=0.013N*	P=0.111N	P=0.005N**
COCH-ARM / FISHERS	P=0.036N*	P=0.017N*	P=0.189N	P=0.008N**
MAX-ISO-POLY-3	P=0.005N**	P=0.008N**	P=0.098N	P=0.003N**

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DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Harderian Gland Hypertrophy				
LESION RATES				
OVERALL (a)	2/50 (4%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/43.59	3/42.93	0/45.98	0/43.48
POLY-3 PERCENT (g)	4.6%	7%	0%	0%
TERMINAL (d)	2/33 (6%)	3/34 (9%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	---	---
STATISTICAL TESTS				
POLY 3	P=0.099N	P=0.493	P=0.225N	P=0.238N
POLY 1.5	P=0.099N	P=0.494	P=0.230N	P=0.239N
POLY 6	P=0.098N	P=0.494	P=0.220N	P=0.235N
COCH-ARM / FISHERS	P=0.099N	P=0.500	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.084N	P=0.319	P=0.076N	P=0.076N

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Heart				
Cardiomyopathy				
LESION RATES				
OVERALL (a)	28/50 (56%)	40/50 (80%)	32/50 (64%)	33/50 (66%)
POLY-3 RATE (b)	28/46.04	40/46.97	32/48.05	33/45.36
POLY-3 PERCENT (g)	60.8%	85.2%	66.6%	72.8%
TERMINAL (d)	20/33 (61%)	29/34 (85%)	22/34 (65%)	25/33 (76%)
FIRST INCIDENCE	535	429	564	504
STATISTICAL TESTS				
POLY 3	P=0.466	P=0.005**	P=0.354	P=0.154
POLY 1.5	P=0.484	P=0.005**	P=0.315	P=0.163
POLY 6	P=0.456	P=0.005**	P=0.404	P=0.151
COCH-ARM / FISHERS	P=0.549	P=0.009**	P=0.270	P=0.206
MAX-ISO-POLY-3	P=0.104	P=0.002**	P=0.282	P=0.107

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Kidney Cyst				
LESION RATES				
OVERALL (a)	4/50 (8%)	1/50 (2%)	3/49 (6%)	0/50 (0%)
POLY-3 RATE (b)	4/43.59	1/43.37	3/46.31	0/43.48
POLY-3 PERCENT (g)	9.2%	2.3%	6.5%	0%
TERMINAL (d)	4/33 (12%)	0/34 (0%)	1/34 (3%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	603	620	---
STATISTICAL TESTS				
POLY 3	P=0.091N	P=0.180N	P=0.467N	P=0.060N
POLY 1.5	P=0.091N	P=0.181N	P=0.484N	P=0.061N
POLY 6	P=0.090N	P=0.176N	P=0.449N	P=0.058N
COCH-ARM / FISHERS	P=0.091N	P=0.181N	P=0.511N	P=0.059N
MAX-ISO-POLY-3	P=0.033N*	P=0.085N	P=0.323N	P=0.019N*

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Kidney				
Hydronephrosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/49 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/43.59	1/43.37	2/46.61	0/43.48
POLY-3 PERCENT (g)	0%	2.3%	4.3%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	603	564	---
STATISTICAL TESTS				
POLY 3	P=0.502N	P=0.499	P=0.253	(e)
POLY 1.5	P=0.504N	P=0.499	P=0.245	(e)
POLY 6	P=0.498N	P=0.501	P=0.261	(e)
COCH-ARM / FISHERS	P=0.501N	P=0.500	P=0.242	(e)
MAX-ISO-POLY-3	P=0.344	P=0.158	P=0.092	(e)

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Kidney Inflammation				
LESION RATES				
OVERALL (a)	0/50 (0%)	3/50 (6%)	2/49 (4%)	4/50 (8%)
POLY-3 RATE (b)	0/43.59	3/43.95	2/46.44	4/45.42
POLY-3 PERCENT (g)	0%	6.8%	4.3%	8.8%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	1/34 (3%)	1/33 (3%)
FIRST INCIDENCE	---	505	564	202
STATISTICAL TESTS				
POLY 3	P=0.121	P=0.120	P=0.252	P=0.065
POLY 1.5	P=0.117	P=0.119	P=0.244	P=0.063
POLY 6	P=0.126	P=0.122	P=0.259	P=0.069
COCH-ARM / FISHERS	P=0.112	P=0.121	P=0.242	P=0.059
MAX-ISO-POLY-3	P=0.051	P=0.039*	P=0.091	P=0.024*

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Kidney Nephropathy				
LESION RATES				
OVERALL (a)	43/50 (86%)	38/50 (76%)	38/49 (78%)	38/50 (76%)
POLY-3 RATE (b)	43/47.63	38/44.81	38/48.14	38/45.38
POLY-3 PERCENT (g)	90.3%	84.8%	78.9%	83.7%
TERMINAL (d)	30/33 (91%)	30/34 (88%)	25/34 (74%)	28/33 (85%)
FIRST INCIDENCE	494	603	564	611
STATISTICAL TESTS				
POLY 3	P=0.334N	P=0.297N	P=0.096N	P=0.249N
POLY 1.5	P=0.317N	P=0.227N	P=0.126N	P=0.214N
POLY 6	P=0.340N	P=0.385N	P=0.074N	P=0.278N
COCH-ARM / FISHERS	P=0.261N	P=0.154N	P=0.204N	P=0.154N
MAX-ISO-POLY-3	P=0.175N	P=0.197N	P=0.056N	P=0.162N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Kidney: Renal Tubule Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	3/50 (6%)
POLY-3 RATE (b)	0/43.59	0/42.93	0/45.90	3/43.51
POLY-3 PERCENT (g)	0%	0%	0%	6.9%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/34 (0%)	2/33 (6%)
FIRST INCIDENCE	---	---	---	722
STATISTICAL TESTS				
POLY 3	P=0.008**	(e)	(e)	P=0.118
POLY 1.5	P=0.008**	(e)	(e)	P=0.117
POLY 6	P=0.008**	(e)	(e)	P=0.120
COCH-ARM / FISHERS	P=0.009**	(e)	(e)	P=0.121
MAX-ISO-POLY-3	P=0.010**	(e)	(e)	P=0.038*

Experiment Number: 20515 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (CIMSTAR 3800)
CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
Time Report Requested: 08:51:01
First Dose M/F: 04/14/08 / 04/14/08
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
Kidney: Transitional Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/49 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/43.59	1/42.93	1/45.90	0/43.48
POLY-3 PERCENT (g)	2.3%	2.3%	2.2%	0%
TERMINAL (d)	1/33 (3%)	1/34 (3%)	1/34 (3%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	---
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Larynx				
Inflammation Acute				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.59	1/43.60	0/45.98	0/43.48
POLY-3 PERCENT (g)	0%	2.3%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	505	---	---
STATISTICAL TESTS				
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: 20515 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (CIMSTAR 3800)
CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
Time Report Requested: 08:51:01
First Dose M/F: 04/14/08 / 04/14/08
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
Larynx				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/43.59	2/43.13	2/45.98	1/43.48
POLY-3 PERCENT (g)	0%	4.6%	4.4%	2.3%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	2/34 (6%)	1/33 (3%)
FIRST INCIDENCE	---	677	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.633	P=0.235	P=0.249	P=0.500
POLY 1.5	P=0.631	P=0.235	P=0.244	P=0.498
POLY 6	P=0.639	P=0.236	P=0.255	P=0.502
COCH-ARM / FISHERS	P=0.634	P=0.247	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.239	P=0.076	P=0.088	P=0.158

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Larynx Metaplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	47/50 (94%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	1/43.59	47/50.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	2.3%	94%	100%	100%
TERMINAL (d)	1/33 (3%)	31/34 (91%)	34/34 (100%)	33/33 (100%)
FIRST INCIDENCE	729 (T)	286	309	202
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Liver				
Angiectasis				
LESION RATES				
OVERALL (a)	3/50 (6%)	7/50 (14%)	8/50 (16%)	7/50 (14%)
POLY-3 RATE (b)	3/43.69	7/43.32	8/45.98	7/43.48
POLY-3 PERCENT (g)	6.9%	16.2%	17.4%	16.1%
TERMINAL (d)	2/33 (6%)	6/34 (18%)	8/34 (24%)	7/33 (21%)
FIRST INCIDENCE	704	620	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.284	P=0.152	P=0.114	P=0.154
POLY 1.5	P=0.283	P=0.153	P=0.108	P=0.153
POLY 6	P=0.289	P=0.154	P=0.122	P=0.157
COCH-ARM / FISHERS	P=0.290	P=0.159	P=0.100	P=0.159
MAX-ISO-POLY-3	P=0.153	P=0.087	P=0.068	P=0.088

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Liver				
Basophilic Focus				
LESION RATES				
OVERALL (a)	11/50 (22%)	20/50 (40%)	18/50 (36%)	18/50 (36%)
POLY-3 RATE (b)	11/44.54	20/43.13	18/46.99	18/45.22
POLY-3 PERCENT (g)	24.7%	46.4%	38.3%	39.8%
TERMINAL (d)	7/33 (21%)	18/34 (53%)	12/34 (35%)	13/33 (39%)
FIRST INCIDENCE	597	704	564	395
STATISTICAL TESTS				
POLY 3	P=0.291	P=0.025*	P=0.118	P=0.093
POLY 1.5	P=0.276	P=0.030*	P=0.106	P=0.090
POLY 6	P=0.316	P=0.022*	P=0.133	P=0.100
COCH-ARM / FISHERS	P=0.270	P=0.041*	P=0.093	P=0.093
MAX-ISO-POLY-3	P=0.080	P=0.016*	P=0.085	P=0.062

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Liver				
Clear Cell Focus				
LESION RATES				
OVERALL (a)	29/50 (58%)	26/50 (52%)	17/50 (34%)	26/50 (52%)
POLY-3 RATE (b)	29/44.77	26/42.98	17/46.12	26/44.60
POLY-3 PERCENT (g)	64.8%	60.5%	36.9%	58.3%
TERMINAL (d)	22/33 (67%)	25/34 (74%)	14/34 (41%)	21/33 (64%)
FIRST INCIDENCE	599	717	704	611
STATISTICAL TESTS				
POLY 3	P=0.433N	P=0.420N	P=0.005N**	P=0.336N
POLY 1.5	P=0.455N	P=0.390N	P=0.007N**	P=0.352N
POLY 6	P=0.393N	P=0.462N	P=0.003N**	P=0.305N
COCH-ARM / FISHERS	P=0.458N	P=0.344N	P=0.013N*	P=0.344N
MAX-ISO-POLY-3	P=0.069N	P=0.335N	P=0.003N**	P=0.259N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Liver				
Fatty Change				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.59	0/42.93	0/45.98	1/43.48
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/34 (0%)	1/33 (3%)
FIRST INCIDENCE	---	---	---	729 (T)
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Liver				
Mixed Cell Focus				
LESION RATES				
OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/43.59	0/42.93	0/45.98	1/43.48
POLY-3 PERCENT (g)	6.9%	0%	0%	2.3%
TERMINAL (d)	3/33 (9%)	0/34 (0%)	0/34 (0%)	1/33 (3%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.471N	P=0.121N	P=0.109N	P=0.306N
POLY 1.5	P=0.471N	P=0.121N	P=0.113N	P=0.308N
POLY 6	P=0.472N	P=0.120N	P=0.105N	P=0.301N
COCH-ARM / FISHERS	P=0.472N	P=0.121N	P=0.121N	P=0.309N
MAX-ISO-POLY-3	P=0.044N*	P=0.040N*	P=0.038N*	P=0.155N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Liver				
Necrosis				
LESION RATES				
OVERALL (a)	2/50 (4%)	3/50 (6%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/44.89	3/43.84	1/46.90	1/43.62
POLY-3 PERCENT (g)	4.5%	6.8%	2.1%	2.3%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	345	547	309	695
STATISTICAL TESTS				
POLY 3	P=0.318N	P=0.489	P=0.485N	P=0.510N
POLY 1.5	P=0.317N	P=0.491	P=0.491N	P=0.509N
POLY 6	P=0.318N	P=0.492	P=0.479N	P=0.508N
COCH-ARM / FISHERS	P=0.308N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.340N	P=0.316	P=0.272N	P=0.292N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Liver: Bile Duct Cyst				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.59	1/42.93	0/45.98	0/43.48
POLY-3 PERCENT (g)	2.3%	2.3%	0%	0%
TERMINAL (d)	1/33 (3%)	1/34 (3%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	---	---
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Liver: Bile Duct Dilatation				
LESION RATES				
OVERALL (a)	3/50 (6%)	2/50 (4%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	3/43.67	2/42.93	2/45.98	4/43.48
POLY-3 PERCENT (g)	6.9%	4.7%	4.4%	9.2%
TERMINAL (d)	2/33 (6%)	2/34 (6%)	2/34 (6%)	4/33 (12%)
FIRST INCIDENCE	710	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.317	P=0.508N	P=0.477N	P=0.498
POLY 1.5	P=0.315	P=0.506N	P=0.486N	P=0.495
POLY 6	P=0.320	P=0.507N	P=0.466N	P=0.503
COCH-ARM / FISHERS	P=0.317	P=0.500N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.370	P=0.331N	P=0.307N	P=0.345

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Liver: Bile Duct Hyperplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.00	2/43.03	0/45.98	0/43.48
POLY-3 PERCENT (g)	2.3%	4.7%	0%	0%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	612	704	---	---
STATISTICAL TESTS				
POLY 3	P=0.228N	P=0.492	P=0.491N	P=0.502N
POLY 1.5	P=0.227N	P=0.494	P=0.495N	P=0.503N
POLY 6	P=0.228N	P=0.492	P=0.487N	P=0.501N
COCH-ARM / FISHERS	P=0.224N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.176N	P=0.276	P=0.158N	P=0.161N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Lung				
Inflammation Acute				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.59	2/43.60	0/45.98	0/43.48
POLY-3 PERCENT (g)	0%	4.6%	0%	0%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	505	---	---
STATISTICAL TESTS				
POLY 3	P=0.389N	P=0.237	(e)	(e)
POLY 1.5	P=0.389N	P=0.236	(e)	(e)
POLY 6	P=0.387N	P=0.239	(e)	(e)
COCH-ARM / FISHERS	P=0.387N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.255N	P=0.076	(e)	(e)

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Lung				
Inflammation Lymphohistiocytic				
LESION RATES				
OVERALL (a)	6/50 (12%)	14/50 (28%)	41/50 (82%)	47/50 (94%)
POLY-3 RATE (b)	6/45.24	14/43.47	41/49.72	47/47.60
POLY-3 PERCENT (g)	13.3%	32.2%	82.5%	98.7%
TERMINAL (d)	2/33 (6%)	11/34 (32%)	26/34 (77%)	33/33 (100%)
FIRST INCIDENCE	597	620	309	395
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.027*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.031*	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.024*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.039*	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.016*	P<0.001**	P<0.001**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Lung: Alveolar Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	4/50 (8%)	6/50 (12%)	11/50 (22%)	13/50 (26%)
POLY-3 RATE (b)	4/44.03	6/43.75	11/46.59	13/44.76
POLY-3 PERCENT (g)	9.1%	13.7%	23.6%	29%
TERMINAL (d)	3/33 (9%)	4/34 (12%)	9/34 (27%)	8/33 (24%)
FIRST INCIDENCE	599	564	564	611
STATISTICAL TESTS				
POLY 3	P=0.012*	P=0.365	P=0.055	P=0.015*
POLY 1.5	P=0.011*	P=0.365	P=0.051	P=0.014*
POLY 6	P=0.014*	P=0.370	P=0.061	P=0.017*
COCH-ARM / FISHERS	P=0.012*	P=0.370	P=0.045*	P=0.016*
MAX-ISO-POLY-3	P=0.013*	P=0.249	P=0.033*	P=0.008**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Lung: Bronchus-Associated Lymphoid Tissue Hyperplasia Lymphohistiocytic				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	5/50 (10%)	19/50 (38%)
POLY-3 RATE (b)	0/43.59	1/43.03	5/45.98	19/44.84
POLY-3 PERCENT (g)	0%	2.3%	10.9%	42.4%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	5/34 (15%)	14/33 (42%)
FIRST INCIDENCE	---	704	729 (T)	611
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.497	P=0.035*	P<0.001**
POLY 1.5	P<0.001**	P=0.498	P=0.033*	P<0.001**
POLY 6	P<0.001**	P=0.498	P=0.037*	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.028*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.158	P=0.013*	P<0.001**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Lymph Node, Bronchial Hyperplasia Lymphohistiocytic				
LESION RATES				
OVERALL (a)	0/42 (0%)	0/40 (0%)	10/37 (27%)	28/35 (80%)
POLY-3 RATE (b)	0/35.69	0/33.03	10/35.55	28/32.43
POLY-3 PERCENT (g)	0%	0%	28.1%	86.4%
TERMINAL (d)	0/26 (0%)	0/25 (0%)	7/26 (27%)	19/23 (83%)
FIRST INCIDENCE	---	---	564	504
STATISTICAL TESTS				
POLY 3	P<0.001**	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P<0.001**	P<0.001**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Lymph Node, Mandibular Ectasia				
LESION RATES				
OVERALL (a)	1/46 (2%)	2/46 (4%)	0/44 (0%)	0/45 (0%)
POLY-3 RATE (b)	1/40.23	2/39.47	0/39.98	0/39.20
POLY-3 PERCENT (g)	2.5%	5.1%	0%	0%
TERMINAL (d)	1/32 (3%)	2/31 (7%)	0/28 (0%)	0/30 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	---	---
STATISTICAL TESTS				
POLY 3	P=0.231N	P=0.493	P=0.501N	P=0.505N
POLY 1.5	P=0.231N	P=0.495	P=0.504N	P=0.506N
POLY 6	P=0.230N	P=0.493	P=0.499N	P=0.503N
COCH-ARM / FISHERS	P=0.228N	P=0.500	P=0.511N	P=0.505N
MAX-ISO-POLY-3	P=0.181N	P=0.276	P=0.161N	P=0.164N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Lymph Node, Mediastinal Hyperplasia Lymphohistiocytic				
LESION RATES				
OVERALL (a)	0/46 (0%)	0/45 (0%)	4/50 (8%)	29/49 (59%)
POLY-3 RATE (b)	0/40.72	0/39.38	4/46.11	29/43.97
POLY-3 PERCENT (g)	0%	0%	8.7%	66%
TERMINAL (d)	0/32 (0%)	0/31 (0%)	2/34 (6%)	22/32 (69%)
FIRST INCIDENCE	---	---	704	611
STATISTICAL TESTS				
POLY 3	P<0.001**	(e)	P=0.077	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.075	P<0.001**
POLY 6	P<0.001**	(e)	P=0.080	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.069	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.031*	P<0.001**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Lymph Node, Mesenteric Ectasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/43.59	0/42.93	0/45.90	0/43.48
POLY-3 PERCENT (g)	4.6%	0%	0%	0%
TERMINAL (d)	2/33 (6%)	0/34 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.260N	P=0.240N	P=0.226N	P=0.238N
POLY 1.5	P=0.259N	P=0.240N	P=0.232N	P=0.239N
POLY 6	P=0.261N	P=0.240N	P=0.220N	P=0.235N
COCH-ARM / FISHERS	P=0.260N	P=0.247N	P=0.253N	P=0.247N
MAX-ISO-POLY-3	P=0.036N*	P=0.079N	P=0.077N	P=0.076N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Lymph Node: Iliac Ectasia				
LESION RATES				
OVERALL (a)	2/12 (17%)	0/5 (0%)	1/7 (14%)	1/5 (20%)
POLY-3 RATE (b)	2/11.07	0/4.08	1/6.86	1/3.92
POLY-3 PERCENT (g)	18.1%	0%	14.6%	25.5%
TERMINAL (d)	1/7 (14%)	0/3 (0%)	0/3 (0%)	0/2 (0%)
FIRST INCIDENCE	704	---	704	675
STATISTICAL TESTS				
POLY 3	P=0.518	P=0.475N	P=0.670N	P=0.649
POLY 1.5	P=0.514	P=0.462N	P=0.677N	P=0.650
POLY 6	P=0.534	P=0.492N	P=0.659N	P=0.657
COCH-ARM / FISHERS	P=0.556	P=0.485N	P=0.773	P=0.676
MAX-ISO-POLY-3	P=0.533	P=0.241N	P=0.431N	P=0.406

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Lymph Node: Lumbar Ectasia				
LESION RATES				
OVERALL (a)	2/12 (17%)	2/5 (40%)	2/7 (29%)	0/5 (0%)
POLY-3 RATE (b)	2/11.35	2/4.08	2/6.77	0/3.72
POLY-3 PERCENT (g)	17.6%	49.1%	29.5%	0%
TERMINAL (d)	1/7 (14%)	2/3 (67%)	1/3 (33%)	0/2 (0%)
FIRST INCIDENCE	619	729 (T)	726	---
STATISTICAL TESTS				
POLY 3	P=0.379N	P=0.288	P=0.498	P=0.504N
POLY 1.5	P=0.365N	P=0.313	P=0.494	P=0.494N
POLY 6	P=0.390N	P=0.257	P=0.501	P=0.513N
COCH-ARM / FISHERS	P=0.293N	P=0.330	P=0.475	P=0.485N
MAX-ISO-POLY-3	P=0.353N	P=0.168	P=0.305	P=0.267N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Lymph Node: Lumbar Infiltration Cellular Plasma Cell				
LESION RATES				
OVERALL (a)	5/12 (42%)	1/5 (20%)	2/7 (29%)	0/5 (0%)
POLY-3 RATE (b)	5/11.51	1/4.42	2/6.79	0/3.72
POLY-3 PERCENT (g)	43.4%	22.6%	29.5%	0%
TERMINAL (d)	2/7 (29%)	0/3 (0%)	1/3 (33%)	0/2 (0%)
FIRST INCIDENCE	599	633	722	---
STATISTICAL TESTS				
POLY 3	P=0.156N	P=0.428N	P=0.463N	P=0.192N
POLY 1.5	P=0.150N	P=0.413N	P=0.466N	P=0.177N
POLY 6	P=0.161N	P=0.442N	P=0.462N	P=0.205N
COCH-ARM / FISHERS	P=0.111N	P=0.395N	P=0.474N	P=0.128N
MAX-ISO-POLY-3	P=0.207N	P=0.275N	P=0.304N	P=0.122N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Lymph Node: Renal Ectasia				
LESION RATES				
OVERALL (a)	0/12 (0%)	2/5 (40%)	0/7 (0%)	2/5 (40%)
POLY-3 RATE (b)	0/10.97	2/4.42	0/6.76	2/4.69
POLY-3 PERCENT (g)	0%	45.2%	0%	42.6%
TERMINAL (d)	0/7 (0%)	1/3 (33%)	0/3 (0%)	1/2 (50%)
FIRST INCIDENCE	---	633	---	202
STATISTICAL TESTS				
POLY 3	P=0.090	P=0.038*	(e)	P=0.043*
POLY 1.5	P=0.090	P=0.039*	(e)	P=0.043*
POLY 6	P=0.089	P=0.037*	(e)	P=0.043*
COCH-ARM / FISHERS	P=0.115	P=0.074	(e)	P=0.074
MAX-ISO-POLY-3	P=0.030*	P=0.011*	(e)	P=0.012*

Experiment Number: 20515 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (CIMSTAR 3800)
CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
Time Report Requested: 08:51:01
First Dose M/F: 04/14/08 / 04/14/08
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
Mammary Gland				
Galactocele				
LESION RATES				
OVERALL (a)	1/6 (17%)	0/6 (0%)	0/3 (0%)	0/4 (0%)
POLY-3 RATE (b)	1/4.85	0/5.62	0/2.60	0/3.12
POLY-3 PERCENT (g)	20.6%	0%	0%	0%
TERMINAL (d)	0/2 (0%)	0/5 (0%)	0/1 (0%)	0/1 (0%)
FIRST INCIDENCE	627	---	---	---
STATISTICAL TESTS				
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: 20515 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (CIMSTAR 3800)
CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
Time Report Requested: 08:51:01
First Dose M/F: 04/14/08 / 04/14/08
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
Mammary Gland Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/6 (0%)	0/6 (0%)	0/3 (0%)	0/4 (0%)
POLY-3 RATE (b)	0/4.48	0/5.62	0/2.60	0/3.12
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/2 (0%)	0/5 (0%)	0/1 (0%)	0/1 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

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 First Dose M/F: 04/14/08 / 04/14/08
 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
Mesentery: Fat Necrosis				
LESION RATES				
OVERALL (a)	6/7 (86%)	7/7 (100%)	1/1 (100%)	0/2 (0%)
POLY-3 RATE (b)	6/7.00	7/7.00	1/1.00	0/1.49
POLY-3 PERCENT (g)	85.7%	100%	100%	0%
TERMINAL (d)	3/4 (75%)	5/5 (100%)	1/1 (100%)	0/0 (0%)
FIRST INCIDENCE	704	562	729 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.011N*	P=0.500	P=0.856	P=0.107N
POLY 1.5	P=0.002N**	P=0.500	P=0.856	P=0.060N
POLY 6	P=0.062N	P=0.500	P=0.856	P=0.222N
COCH-ARM / FISHERS	P=0.010N**	P=0.500	P=0.875	P=0.083N
MAX-ISO-POLY-3	P=0.007N**	P=0.159	P=0.393	P=0.036N*

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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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
Nose				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	4/50 (8%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	4/43.65	1/43.13	1/46.30	0/43.48
POLY-3 PERCENT (g)	9.2%	2.3%	2.2%	0%
TERMINAL (d)	3/33 (9%)	0/34 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	715	677	639	---
STATISTICAL TESTS				
POLY 3	P=0.074N	P=0.182N	P=0.161N	P=0.060N
POLY 1.5	P=0.074N	P=0.182N	P=0.169N	P=0.061N
POLY 6	P=0.074N	P=0.179N	P=0.153N	P=0.059N
COCH-ARM / FISHERS	P=0.076N	P=0.181N	P=0.181N	P=0.059N
MAX-ISO-POLY-3	P=0.015N*	P=0.087N	P=0.079N	P=0.020N*

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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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
Nose: Goblet Cell Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	20/50 (40%)	25/50 (50%)	34/50 (68%)
POLY-3 RATE (b)	0/43.59	20/44.82	25/47.24	34/47.69
POLY-3 PERCENT (g)	0%	44.6%	52.9%	71.3%
TERMINAL (d)	0/33 (0%)	15/34 (44%)	19/34 (56%)	22/33 (67%)
FIRST INCIDENCE	---	505	564	202
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Nose: Olfactory Epithelium Accumulation, Hyaline Droplet				
LESION RATES				
OVERALL (a)	19/50 (38%)	50/50 (100%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	19/45.32	50/50.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	41.9%	100%	100%	100%
TERMINAL (d)	15/33 (46%)	34/34 (100%)	34/34 (100%)	33/33 (100%)
FIRST INCIDENCE	520	286	309	202
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Nose: Olfactory Epithelium, Glands Hyperplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	39/50 (78%)	47/50 (94%)	50/50 (100%)
POLY-3 RATE (b)	1/43.59	39/48.10	47/48.54	50/50.00
POLY-3 PERCENT (g)	2.3%	81.1%	96.8%	100%
TERMINAL (d)	1/33 (3%)	28/34 (82%)	33/34 (97%)	33/33 (100%)
FIRST INCIDENCE	729 (T)	429	564	202
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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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
Nose: Respiratory Epithelium Accumulation, Hyaline Droplet				
LESION RATES				
OVERALL (a)	0/50 (0%)	17/50 (34%)	25/50 (50%)	29/50 (58%)
POLY-3 RATE (b)	0/43.59	17/44.94	25/47.10	29/47.62
POLY-3 PERCENT (g)	0%	37.8%	53.1%	60.9%
TERMINAL (d)	0/33 (0%)	12/34 (35%)	21/34 (62%)	18/33 (55%)
FIRST INCIDENCE	---	439	564	202
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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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
Pancreas Atrophy				
LESION RATES				
OVERALL (a)	1/50 (2%)	4/50 (8%)	4/49 (8%)	5/50 (10%)
POLY-3 RATE (b)	1/43.59	4/43.56	4/46.21	5/44.50
POLY-3 PERCENT (g)	2.3%	9.2%	8.7%	11.2%
TERMINAL (d)	1/33 (3%)	2/34 (6%)	3/34 (9%)	1/33 (3%)
FIRST INCIDENCE	729 (T)	547	646	611
STATISTICAL TESTS				
POLY 3	P=0.177	P=0.178	P=0.197	P=0.106
POLY 1.5	P=0.171	P=0.177	P=0.188	P=0.102
POLY 6	P=0.189	P=0.181	P=0.207	P=0.113
COCH-ARM / FISHERS	P=0.170	P=0.181	P=0.175	P=0.102
MAX-ISO-POLY-3	P=0.101	P=0.083	P=0.102	P=0.048*

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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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
Pancreas				
Basophilic Focus				
LESION RATES				
OVERALL (a)	2/50 (4%)	4/50 (8%)	2/49 (4%)	1/50 (2%)
POLY-3 RATE (b)	2/44.04	4/43.28	2/45.90	1/43.48
POLY-3 PERCENT (g)	4.5%	9.2%	4.4%	2.3%
TERMINAL (d)	1/33 (3%)	3/34 (9%)	2/34 (6%)	1/33 (3%)
FIRST INCIDENCE	597	633	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.246N	P=0.329	P=0.679N	P=0.504N
POLY 1.5	P=0.246N	P=0.331	P=0.687N	P=0.505N
POLY 6	P=0.245N	P=0.329	P=0.672N	P=0.503N
COCH-ARM / FISHERS	P=0.240N	P=0.339	P=0.684	P=0.500N
MAX-ISO-POLY-3	P=0.275N	P=0.196	P=0.483N	P=0.285N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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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
Pituitary Gland: Pars Distalis Hyperplasia				
LESION RATES				
OVERALL (a)	14/49 (29%)	21/50 (42%)	13/50 (26%)	16/50 (32%)
POLY-3 RATE (b)	14/43.49	21/43.95	13/46.02	16/43.58
POLY-3 PERCENT (g)	32.2%	47.8%	28.3%	36.7%
TERMINAL (d)	12/32 (38%)	17/34 (50%)	11/34 (32%)	15/33 (46%)
FIRST INCIDENCE	597	564	722	704
STATISTICAL TESTS				
POLY 3	P=0.499N	P=0.098	P=0.430N	P=0.413
POLY 1.5	P=0.494N	P=0.102	P=0.449N	P=0.417
POLY 6	P=0.500N	P=0.099	P=0.411N	P=0.415
COCH-ARM / FISHERS	P=0.470N	P=0.117	P=0.475N	P=0.440
MAX-ISO-POLY-3	P=0.369N	P=0.064	P=0.345N	P=0.328

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
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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
Pituitary Gland: Pars Intermedia Hyperplasia				
LESION RATES				
OVERALL (a)	3/49 (6%)	1/50 (2%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	3/42.59	1/42.93	1/45.98	4/43.48
POLY-3 PERCENT (g)	7%	2.3%	2.2%	9.2%
TERMINAL (d)	3/32 (9%)	1/34 (3%)	1/34 (3%)	4/33 (12%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.220	P=0.302N	P=0.278N	P=0.511
POLY 1.5	P=0.219	P=0.302N	P=0.287N	P=0.508
POLY 6	P=0.222	P=0.300N	P=0.269N	P=0.519
COCH-ARM / FISHERS	P=0.220	P=0.301N	P=0.301N	P=0.511
MAX-ISO-POLY-3	P=0.213	P=0.151N	P=0.143N	P=0.358

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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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
Preputial Gland Inflammation Chronic				
LESION RATES				
OVERALL (a)	3/50 (6%)	5/50 (10%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	3/44.47	5/44.23	3/46.51	3/44.20
POLY-3 PERCENT (g)	6.8%	11.3%	6.5%	6.8%
TERMINAL (d)	0/33 (0%)	2/34 (6%)	2/34 (6%)	2/33 (6%)
FIRST INCIDENCE	607	547	564	478
STATISTICAL TESTS				
POLY 3	P=0.461N	P=0.353	P=0.641N	P=0.660
POLY 1.5	P=0.461N	P=0.353	P=0.650N	P=0.658
POLY 6	P=0.461N	P=0.356	P=0.634N	P=0.661
COCH-ARM / FISHERS	P=0.455N	P=0.357	P=0.661N	P=0.661N
MAX-ISO-POLY-3	P=0.537N	P=0.229	P=0.477N	P=0.496

Experiment Number: 20515 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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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
Prostate Hyperplasia				
LESION RATES				
OVERALL (a)	12/50 (24%)	17/50 (34%)	12/50 (24%)	11/50 (22%)
POLY-3 RATE (b)	12/44.11	17/43.79	12/45.98	11/43.85
POLY-3 PERCENT (g)	27.2%	38.8%	26.1%	25.1%
TERMINAL (d)	10/33 (30%)	15/34 (44%)	12/34 (35%)	10/33 (30%)
FIRST INCIDENCE	607	547	729 (T)	627
STATISTICAL TESTS				
POLY 3	P=0.261N	P=0.173	P=0.548N	P=0.507N
POLY 1.5	P=0.266N	P=0.176	P=0.566N	P=0.511N
POLY 6	P=0.251N	P=0.175	P=0.529N	P=0.496N
COCH-ARM / FISHERS	P=0.259N	P=0.189	P=0.592N	P=0.500N
MAX-ISO-POLY-3	P=0.338N	P=0.122	P=0.452N	P=0.409N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
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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
Prostate Inflammation Chronic				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	1/44.04	2/43.86	4/46.15	2/44.03
POLY-3 PERCENT (g)	2.3%	4.6%	8.7%	4.5%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	2/34 (6%)	0/33 (0%)
FIRST INCIDENCE	597	564	704	635
STATISTICAL TESTS				
POLY 3	P=0.531	P=0.499	P=0.193	P=0.500
POLY 1.5	P=0.527	P=0.498	P=0.187	P=0.498
POLY 6	P=0.540	P=0.502	P=0.200	P=0.505
COCH-ARM / FISHERS	P=0.531	P=0.500	P=0.181	P=0.500
MAX-ISO-POLY-3	P=0.287	P=0.280	P=0.097	P=0.280

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

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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
Seminal Vesicle Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/48 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/43.59	0/42.93	2/45.02	1/43.50
POLY-3 PERCENT (g)	0%	0%	4.4%	2.3%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	2/34 (6%)	0/33 (0%)
FIRST INCIDENCE	---	---	729 (T)	725
STATISTICAL TESTS				
POLY 3	P=0.382	(e)	P=0.244	P=0.500
POLY 1.5	P=0.379	(e)	P=0.238	P=0.498
POLY 6	P=0.389	(e)	P=0.251	P=0.502
COCH-ARM / FISHERS	P=0.378	(e)	P=0.237	P=0.500
MAX-ISO-POLY-3	P=0.184	(e)	P=0.085	P=0.158

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Skin				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	31/50 (62%)	23/50 (46%)	30/50 (60%)	22/50 (44%)
POLY-3 RATE (b)	31/46.14	23/44.47	30/47.79	22/45.14
POLY-3 PERCENT (g)	67.2%	51.7%	62.8%	48.7%
TERMINAL (d)	22/33 (67%)	18/34 (53%)	19/34 (56%)	16/33 (49%)
FIRST INCIDENCE	494	429	564	478
STATISTICAL TESTS				
POLY 3	P=0.099N	P=0.092N	P=0.407N	P=0.052N
POLY 1.5	P=0.105N	P=0.086N	P=0.448N	P=0.055N
POLY 6	P=0.089N	P=0.100N	P=0.359N	P=0.048N*
COCH-ARM / FISHERS	P=0.107N	P=0.080N	P=0.500N	P=0.054N
MAX-ISO-POLY-3	P=0.057N	P=0.064N	P=0.327N	P=0.034N*

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Spleen				
Hematopoietic Cell Proliferation				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	2/44.10	0/42.93	4/47.11	2/44.03
POLY-3 PERCENT (g)	4.5%	0%	8.5%	4.5%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	597	---	564	611
STATISTICAL TESTS				
POLY 3	P=0.484	P=0.243N	P=0.368	P=0.693
POLY 1.5	P=0.478	P=0.241N	P=0.355	P=0.691
POLY 6	P=0.495	P=0.244N	P=0.383	P=0.690N
COCH-ARM / FISHERS	P=0.475	P=0.247N	P=0.339	P=0.691N
MAX-ISO-POLY-3	P=0.272	P=0.081N	P=0.232	P=0.499

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Stomach, Forestomach Inflammation Acute				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.59	0/42.93	0/45.98	0/43.48
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Stomach, Forestomach Ulcer				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/43.59	1/43.32	0/45.98	2/44.33
POLY-3 PERCENT (g)	0%	2.3%	0%	4.5%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	620	---	478
STATISTICAL TESTS				
POLY 3	P=0.151	P=0.499	(e)	P=0.241
POLY 1.5	P=0.149	P=0.498	(e)	P=0.238
POLY 6	P=0.154	P=0.501	(e)	P=0.245
COCH-ARM / FISHERS	P=0.149	P=0.500	(e)	P=0.247
MAX-ISO-POLY-3	P=0.085	P=0.158	(e)	P=0.080

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Stomach, Glandular Necrosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/49 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.59	0/42.93	1/46.08	0/43.48
POLY-3 PERCENT (g)	0%	0%	2.2%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	684	---
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Testes				
Atrophy				
LESION RATES				
OVERALL (a)	15/50 (30%)	8/50 (16%)	5/50 (10%)	5/50 (10%)
POLY-3 RATE (b)	15/45.55	8/43.47	5/46.36	5/44.37
POLY-3 PERCENT (g)	32.9%	18.4%	10.8%	11.3%
TERMINAL (d)	10/33 (30%)	7/34 (21%)	2/34 (6%)	3/33 (9%)
FIRST INCIDENCE	535	564	639	457
STATISTICAL TESTS				
POLY 3	P=0.025N*	P=0.091N	P=0.008N**	P=0.011N*
POLY 1.5	P=0.026N*	P=0.085N	P=0.009N**	P=0.011N*
POLY 6	P=0.024N*	P=0.097N	P=0.008N**	P=0.011N*
COCH-ARM / FISHERS	P=0.028N*	P=0.077N	P=0.011N*	P=0.011N*
MAX-ISO-POLY-3	P=0.006N**	P=0.061N	P=0.004N**	P=0.006N**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Testes				
Edema				
LESION RATES				
OVERALL (a)	16/50 (32%)	11/50 (22%)	18/50 (36%)	11/50 (22%)
POLY-3 RATE (b)	16/43.81	11/43.13	18/46.76	11/43.79
POLY-3 PERCENT (g)	36.5%	25.5%	38.5%	25.1%
TERMINAL (d)	13/33 (39%)	10/34 (29%)	12/34 (35%)	9/33 (27%)
FIRST INCIDENCE	704	677	564	675
STATISTICAL TESTS				
POLY 3	P=0.232N	P=0.187N	P=0.509	P=0.175N
POLY 1.5	P=0.242N	P=0.189N	P=0.469	P=0.184N
POLY 6	P=0.216N	P=0.182N	P=0.556	P=0.161N
COCH-ARM / FISHERS	P=0.243N	P=0.184N	P=0.417	P=0.184N
MAX-ISO-POLY-3	P=0.202N	P=0.132N	P=0.423	P=0.122N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
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Date Report Requested: 05/08/2013
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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
Testes: Artery				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.59	2/42.93	0/45.98	0/43.48
POLY-3 PERCENT (g)	0%	4.7%	0%	0%
TERMINAL (d)	0/33 (0%)	2/34 (6%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
STATISTICAL TESTS				
POLY 3	P=0.391N	P=0.234	(e)	(e)
POLY 1.5	P=0.391N	P=0.234	(e)	(e)
POLY 6	P=0.391N	P=0.234	(e)	(e)
COCH-ARM / FISHERS	P=0.387N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.252N	P=0.076	(e)	(e)

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Thyroid Gland: C-Cell Hyperplasia				
LESION RATES				
OVERALL (a)	34/50 (68%)	30/50 (60%)	30/49 (61%)	28/50 (56%)
POLY-3 RATE (b)	34/47.21	30/45.50	30/46.50	28/44.46
POLY-3 PERCENT (g)	72%	65.9%	64.5%	63%
TERMINAL (d)	24/33 (73%)	23/34 (68%)	24/34 (71%)	23/33 (70%)
FIRST INCIDENCE	494	505	620	635
STATISTICAL TESTS				
POLY 3	P=0.270N	P=0.337N	P=0.284N	P=0.235N
POLY 1.5	P=0.242N	P=0.314N	P=0.297N	P=0.205N
POLY 6	P=0.297N	P=0.353N	P=0.270N	P=0.263N
COCH-ARM / FISHERS	P=0.188N	P=0.266N	P=0.310N	P=0.151N
MAX-ISO-POLY-3	P=0.296N	P=0.262N	P=0.214N	P=0.178N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Thyroid Gland: Follicular Cell Hyperplasia				
LESION RATES				
OVERALL (a)	5/50 (10%)	1/50 (2%)	5/49 (10%)	0/50 (0%)
POLY-3 RATE (b)	5/43.67	1/42.93	5/45.19	0/43.48
POLY-3 PERCENT (g)	11.5%	2.3%	11.1%	0%
TERMINAL (d)	4/33 (12%)	1/34 (3%)	4/34 (12%)	0/33 (0%)
FIRST INCIDENCE	710	729 (T)	704	---
STATISTICAL TESTS				
POLY 3	P=0.063N	P=0.104N	P=0.609N	P=0.031N*
POLY 1.5	P=0.065N	P=0.104N	P=0.623N	P=0.031N*
POLY 6	P=0.061N	P=0.104N	P=0.592N	P=0.029N*
COCH-ARM / FISHERS	P=0.067N	P=0.102N	P=0.617	P=0.028N*
MAX-ISO-POLY-3	P=0.022N*	P=0.047N*	P=0.476N	P=0.010N**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Adrenal Cortex				
Angiectasis				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/44.94	1/43.71	1/46.49	2/45.65
POLY-3 PERCENT (g)	2.2%	2.3%	2.2%	4.4%
TERMINAL (d)	1/35 (3%)	1/32 (3%)	1/36 (3%)	2/29 (7%)
FIRST INCIDENCE	731 (T)	731 (T)	731 (T)	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.373	P=0.755	P=0.753N	P=0.505
POLY 1.5	P=0.370	P=0.757	P=0.755N	P=0.504
POLY 6	P=0.374	P=0.750	P=0.751N	P=0.504
COCH-ARM / FISHERS	P=0.363	P=0.753N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.432	P=0.491	P=0.490N	P=0.287

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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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
Adrenal Cortex Degeneration Cystic				
LESION RATES				
OVERALL (a)	26/50 (52%)	23/50 (46%)	29/50 (58%)	35/50 (70%)
POLY-3 RATE (b)	26/46.91	23/45.80	29/48.03	35/49.31
POLY-3 PERCENT (g)	55.4%	50.2%	60.4%	71%
TERMINAL (d)	19/35 (54%)	15/32 (47%)	23/36 (64%)	17/29 (59%)
FIRST INCIDENCE	402	544	598	586
STATISTICAL TESTS				
POLY 3	P=0.026*	P=0.383N	P=0.388	P=0.081
POLY 1.5	P=0.018*	P=0.367N	P=0.371	P=0.064
POLY 6	P=0.041*	P=0.401N	P=0.404	P=0.111
COCH-ARM / FISHERS	P=0.013*	P=0.345N	P=0.344	P=0.050*
MAX-ISO-POLY-3	P=0.041*	P=0.307N	P=0.312	P=0.057

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Adrenal Cortex Hyperplasia				
LESION RATES				
OVERALL (a)	17/50 (34%)	20/50 (40%)	27/50 (54%)	22/50 (44%)
POLY-3 RATE (b)	17/45.07	20/45.17	27/47.08	22/46.92
POLY-3 PERCENT (g)	37.7%	44.3%	57.4%	46.9%
TERMINAL (d)	16/35 (46%)	15/32 (47%)	24/36 (67%)	17/29 (59%)
FIRST INCIDENCE	698	619	673	523
STATISTICAL TESTS				
POLY 3	P=0.333	P=0.336	P=0.042*	P=0.246
POLY 1.5	P=0.310	P=0.338	P=0.039*	P=0.232
POLY 6	P=0.346	P=0.336	P=0.045*	P=0.254
COCH-ARM / FISHERS	P=0.269	P=0.339	P=0.035*	P=0.206
MAX-ISO-POLY-3	P=0.134	P=0.261	P=0.028*	P=0.189

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Adrenal Cortex Hypertrophy				
LESION RATES				
OVERALL (a)	14/50 (28%)	20/50 (40%)	24/50 (48%)	21/50 (42%)
POLY-3 RATE (b)	14/45.10	20/46.16	24/47.58	21/46.49
POLY-3 PERCENT (g)	31%	43.3%	50.4%	45.2%
TERMINAL (d)	12/35 (34%)	12/32 (38%)	19/36 (53%)	16/29 (55%)
FIRST INCIDENCE	709	530	603	630
STATISTICAL TESTS				
POLY 3	P=0.225	P=0.156	P=0.042*	P=0.116
POLY 1.5	P=0.220	P=0.152	P=0.037*	P=0.112
POLY 6	P=0.220	P=0.165	P=0.048*	P=0.116
COCH-ARM / FISHERS	P=0.205	P=0.146	P=0.032*	P=0.104
MAX-ISO-POLY-3	P=0.085	P=0.112	P=0.029*	P=0.082

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

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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
Adrenal Medulla Hyperplasia				
LESION RATES				
OVERALL (a)	2/49 (4%)	2/50 (4%)	1/49 (2%)	0/49 (0%)
POLY-3 RATE (b)	2/44.33	2/43.71	1/45.49	0/44.65
POLY-3 PERCENT (g)	4.5%	4.6%	2.2%	0%
TERMINAL (d)	1/34 (3%)	2/32 (6%)	1/35 (3%)	0/28 (0%)
FIRST INCIDENCE	619	731 (T)	731 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.146N	P=0.689	P=0.491N	P=0.235N
POLY 1.5	P=0.147N	P=0.693N	P=0.494N	P=0.235N
POLY 6	P=0.147N	P=0.680	P=0.490N	P=0.238N
COCH-ARM / FISHERS	P=0.148N	P=0.684N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.159N	P=0.493	P=0.275N	P=0.076N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Clitoral Gland Inflammation Chronic				
LESION RATES				
OVERALL (a)	6/50 (12%)	4/46 (9%)	2/50 (4%)	1/49 (2%)
POLY-3 RATE (b)	6/45.55	4/40.18	2/46.49	1/44.76
POLY-3 PERCENT (g)	13.2%	10%	4.3%	2.2%
TERMINAL (d)	4/35 (11%)	2/29 (7%)	2/36 (6%)	1/29 (3%)
FIRST INCIDENCE	586	683	731 (T)	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.047N*	P=0.450N	P=0.126N	P=0.058N
POLY 1.5	P=0.048N*	P=0.438N	P=0.128N	P=0.058N
POLY 6	P=0.047N*	P=0.468N	P=0.126N	P=0.060N
COCH-ARM / FISHERS	P=0.051N	P=0.425N	P=0.134N	P=0.059N
MAX-ISO-POLY-3	P=0.037N*	P=0.329N	P=0.066N	P=0.025N*

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Eye Cataract				
LESION RATES				
OVERALL (a)	0/49 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/44.10	0/43.71	1/46.49	0/45.65
POLY-3 PERCENT (g)	0%	0%	2.2%	0%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	1/36 (3%)	0/29 (0%)
FIRST INCIDENCE	---	---	731 (T)	---
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Eye: Retina Atrophy				
LESION RATES				
OVERALL (a)	3/49 (6%)	4/50 (8%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	3/44.89	4/43.89	4/46.49	2/45.65
POLY-3 PERCENT (g)	6.7%	9.1%	8.6%	4.4%
TERMINAL (d)	1/35 (3%)	3/32 (9%)	4/36 (11%)	2/29 (7%)
FIRST INCIDENCE	619	684	731 (T)	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.319N	P=0.488	P=0.519	P=0.492N
POLY 1.5	P=0.319N	P=0.499	P=0.518	P=0.490N
POLY 6	P=0.324N	P=0.471	P=0.516	P=0.501N
COCH-ARM / FISHERS	P=0.324N	P=0.511	P=0.511	P=0.490N
MAX-ISO-POLY-3	P=0.399N	P=0.338	P=0.366	P=0.318N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
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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
Harderian Gland Hyperplasia				
LESION RATES				
OVERALL (a)	3/49 (6%)	3/50 (6%)	5/50 (10%)	4/50 (8%)
POLY-3 RATE (b)	3/44.10	3/43.71	5/46.65	4/45.90
POLY-3 PERCENT (g)	6.8%	6.9%	10.7%	8.7%
TERMINAL (d)	3/35 (9%)	3/32 (9%)	4/36 (11%)	2/29 (7%)
FIRST INCIDENCE	731 (T)	731 (T)	690	673
STATISTICAL TESTS				
POLY 3	P=0.472	P=0.659	P=0.388	P=0.522
POLY 1.5	P=0.465	P=0.660N	P=0.381	P=0.519
POLY 6	P=0.477	P=0.648	P=0.393	P=0.521
COCH-ARM / FISHERS	P=0.450	P=0.651N	P=0.369	P=0.511
MAX-ISO-POLY-3	P=0.497	P=0.495	P=0.262	P=0.369

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
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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
Harderian Gland Hypertrophy				
LESION RATES				
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.10	0/43.71	0/46.49	0/45.65
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

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 First Dose M/F: 04/14/08 / 04/14/08
 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
Heart				
Cardiomyopathy				
LESION RATES				
OVERALL (a)	16/50 (32%)	17/50 (34%)	16/50 (32%)	14/50 (28%)
POLY-3 RATE (b)	16/45.75	17/45.77	16/46.49	14/46.86
POLY-3 PERCENT (g)	35%	37.1%	34.4%	29.9%
TERMINAL (d)	12/35 (34%)	10/32 (31%)	16/36 (44%)	7/29 (24%)
FIRST INCIDENCE	586	530	731 (T)	630
STATISTICAL TESTS				
POLY 3	P=0.284N	P=0.501	P=0.565N	P=0.381N
POLY 1.5	P=0.296N	P=0.502	P=0.568N	P=0.392N
POLY 6	P=0.274N	P=0.498	P=0.573N	P=0.375N
COCH-ARM / FISHERS	P=0.319N	P=0.500	P=0.585N	P=0.414N
MAX-ISO-POLY-3	P=0.430N	P=0.412	P=0.476N	P=0.302N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
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Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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 Cyst				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/44.94	1/43.71	2/46.80	0/45.65
POLY-3 PERCENT (g)	0%	2.3%	4.3%	0%
TERMINAL (d)	0/35 (0%)	1/32 (3%)	1/36 (3%)	0/29 (0%)
FIRST INCIDENCE	---	731 (T)	646	---
STATISTICAL TESTS				
POLY 3	P=0.494N	P=0.494	P=0.246	(e)
POLY 1.5	P=0.496N	P=0.497	P=0.243	(e)
POLY 6	P=0.494N	P=0.490	P=0.249	(e)
COCH-ARM / FISHERS	P=0.502N	P=0.500	P=0.247	(e)
MAX-ISO-POLY-3	P=0.336N	P=0.158	P=0.085	(e)

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
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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
Kidney				
Hydronephrosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/44.94	1/44.06	0/46.49	1/45.65
POLY-3 PERCENT (g)	0%	2.3%	0%	2.2%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/36 (0%)	1/29 (3%)
FIRST INCIDENCE	---	633	---	731 (T)
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

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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
Kidney Inflammation				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.94	2/43.89	0/46.49	0/45.65
POLY-3 PERCENT (g)	2.2%	4.6%	0%	0%
TERMINAL (d)	1/35 (3%)	1/32 (3%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	731 (T)	683	---	---
STATISTICAL TESTS				
POLY 3	P=0.224N	P=0.492	P=0.493N	P=0.497N
POLY 1.5	P=0.224N	P=0.496	P=0.496N	P=0.498N
POLY 6	P=0.226N	P=0.486	P=0.492N	P=0.498N
COCH-ARM / FISHERS	P=0.224N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.171N	P=0.276	P=0.158N	P=0.158N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

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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
Kidney Nephropathy				
LESION RATES				
OVERALL (a)	17/50 (34%)	16/50 (32%)	19/50 (38%)	18/50 (36%)
POLY-3 RATE (b)	17/46.26	16/44.43	19/47.34	18/47.15
POLY-3 PERCENT (g)	36.8%	36%	40.1%	38.2%
TERMINAL (d)	12/35 (34%)	14/32 (44%)	14/36 (39%)	8/29 (28%)
FIRST INCIDENCE	599	627	646	586
STATISTICAL TESTS				
POLY 3	P=0.489	P=0.558N	P=0.450	P=0.529
POLY 1.5	P=0.467	P=0.530N	P=0.441	P=0.521
POLY 6	P=0.507	P=0.575	P=0.454	P=0.528
COCH-ARM / FISHERS	P=0.430	P=0.500N	P=0.418	P=0.500
MAX-ISO-POLY-3	P=0.612	P=0.470N	P=0.368	P=0.442

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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: Renal Tubule Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/44.94	0/43.71	0/46.49	1/45.84
POLY-3 PERCENT (g)	0%	0%	0%	2.2%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	681
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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: Transitional Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/44.94	3/43.88	1/46.93	0/45.65
POLY-3 PERCENT (g)	2.2%	6.8%	2.1%	0%
TERMINAL (d)	1/35 (3%)	2/32 (6%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	731 (T)	687	603	---
STATISTICAL TESTS				
POLY 3	P=0.172N	P=0.297	P=0.751N	P=0.497N
POLY 1.5	P=0.173N	P=0.301	P=0.754N	P=0.498N
POLY 6	P=0.174N	P=0.290	P=0.748N	P=0.498N
COCH-ARM / FISHERS	P=0.175N	P=0.309	P=0.753N	P=0.500N
MAX-ISO-POLY-3	P=0.157N	P=0.150	P=0.487N	P=0.158N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Larynx				
Inflammation Acute				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	4/50 (8%)
POLY-3 RATE (b)	0/44.94	0/43.71	0/46.49	4/46.39
POLY-3 PERCENT (g)	0%	0%	0%	8.6%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/36 (0%)	1/29 (3%)
FIRST INCIDENCE	---	---	---	586
STATISTICAL TESTS				
POLY 3	P=0.002**	(e)	(e)	P=0.064
POLY 1.5	P=0.002**	(e)	(e)	P=0.063
POLY 6	P=0.002**	(e)	(e)	P=0.065
COCH-ARM / FISHERS	P=0.002**	(e)	(e)	P=0.059
MAX-ISO-POLY-3	P=0.003**	(e)	(e)	P=0.023*

Experiment Number: 20515 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (CIMSTAR 3800)
CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
Time Report Requested: 08:51:01
First Dose M/F: 04/14/08 / 04/14/08
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
Larynx				
Inflammation Chronic				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.94	0/43.71	0/46.49	0/45.65
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

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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
Larynx Metaplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	50/50 (100%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	1/44.94	50/50.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	2.2%	100%	100%	100%
TERMINAL (d)	1/35 (3%)	32/32 (100%)	36/36 (100%)	29/29 (100%)
FIRST INCIDENCE	731 (T)	481	563	523
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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				
Angiectasis				
LESION RATES				
OVERALL (a)	4/50 (8%)	5/50 (10%)	5/50 (10%)	1/50 (2%)
POLY-3 RATE (b)	4/45.07	5/44.43	5/46.49	1/45.65
POLY-3 PERCENT (g)	8.9%	11.3%	10.8%	2.2%
TERMINAL (d)	3/35 (9%)	3/32 (9%)	5/36 (14%)	1/29 (3%)
FIRST INCIDENCE	698	568	731 (T)	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.090N	P=0.491	P=0.519	P=0.175N
POLY 1.5	P=0.092N	P=0.496	P=0.513	P=0.176N
POLY 6	P=0.091N	P=0.483	P=0.523	P=0.176N
COCH-ARM / FISHERS	P=0.096N	P=0.500	P=0.500	P=0.181N
MAX-ISO-POLY-3	P=0.132N	P=0.355	P=0.382	P=0.082N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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				
Basophilic Focus				
LESION RATES				
OVERALL (a)	34/50 (68%)	33/50 (66%)	35/50 (70%)	32/50 (64%)
POLY-3 RATE (b)	34/47.64	33/47.02	35/49.04	32/48.80
POLY-3 PERCENT (g)	71.4%	70.2%	71.4%	65.6%
TERMINAL (d)	25/35 (71%)	21/32 (66%)	25/36 (69%)	18/29 (62%)
FIRST INCIDENCE	402	481	598	586
STATISTICAL TESTS				
POLY 3	P=0.293N	P=0.540N	P=0.590N	P=0.345N
POLY 1.5	P=0.332N	P=0.526N	P=0.552	P=0.376N
POLY 6	P=0.252N	P=0.548N	P=0.544N	P=0.307N
COCH-ARM / FISHERS	P=0.387N	P=0.500N	P=0.500	P=0.417N
MAX-ISO-POLY-3	P=0.431N	P=0.447N	P=0.499N	P=0.270N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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				
Clear Cell Focus				
LESION RATES				
OVERALL (a)	14/50 (28%)	6/50 (12%)	17/50 (34%)	14/50 (28%)
POLY-3 RATE (b)	14/45.39	6/43.71	17/46.65	14/46.27
POLY-3 PERCENT (g)	30.8%	13.7%	36.4%	30.3%
TERMINAL (d)	13/35 (37%)	6/32 (19%)	16/36 (44%)	9/29 (31%)
FIRST INCIDENCE	599	731 (T)	690	630
STATISTICAL TESTS				
POLY 3	P=0.302	P=0.043N*	P=0.364	P=0.566N
POLY 1.5	P=0.286	P=0.041N*	P=0.354	P=0.572N
POLY 6	P=0.319	P=0.048N*	P=0.368	P=0.566N
COCH-ARM / FISHERS	P=0.261	P=0.039N*	P=0.333	P=0.588N
MAX-ISO-POLY-3	P=0.194	P=0.026N*	P=0.287	P=0.475N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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 Fatty Change				
LESION RATES				
OVERALL (a)	3/50 (6%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	3/46.04	1/44.06	2/47.21	1/45.87
POLY-3 PERCENT (g)	6.5%	2.3%	4.2%	2.2%
TERMINAL (d)	1/35 (3%)	0/32 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	499	633	598	673
STATISTICAL TESTS				
POLY 3	P=0.339N	P=0.321N	P=0.489N	P=0.307N
POLY 1.5	P=0.342N	P=0.314N	P=0.493N	P=0.305N
POLY 6	P=0.338N	P=0.331N	P=0.485N	P=0.311N
COCH-ARM / FISHERS	P=0.347N	P=0.309N	P=0.500N	P=0.309N
MAX-ISO-POLY-3	P=0.228N	P=0.171N	P=0.316N	P=0.155N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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				
Mixed Cell Focus				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/45.05	0/43.71	0/46.49	0/45.65
POLY-3 PERCENT (g)	4.4%	0%	0%	0%
TERMINAL (d)	1/35 (3%)	0/32 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	703	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.255N	P=0.244N	P=0.230N	P=0.234N
POLY 1.5	P=0.257N	P=0.241N	P=0.233N	P=0.235N
POLY 6	P=0.251N	P=0.249N	P=0.229N	P=0.236N
COCH-ARM / FISHERS	P=0.260N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.035N*	P=0.082N	P=0.076N	P=0.076N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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 Necrosis				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/45.03	1/44.43	1/46.71	0/45.65
POLY-3 PERCENT (g)	2.2%	2.3%	2.1%	0%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	709	481	673	---
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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: Bile Duct Cyst				
LESION RATES				
OVERALL (a)	1/50 (2%)	5/50 (10%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	1/44.94	5/44.26	1/46.49	4/46.19
POLY-3 PERCENT (g)	2.2%	11.3%	2.2%	8.7%
TERMINAL (d)	1/35 (3%)	2/32 (6%)	1/36 (3%)	2/29 (7%)
FIRST INCIDENCE	731 (T)	633	731 (T)	586
STATISTICAL TESTS				
POLY 3	P=0.331	P=0.097	P=0.753N	P=0.187
POLY 1.5	P=0.327	P=0.100	P=0.755N	P=0.185
POLY 6	P=0.331	P=0.095	P=0.751N	P=0.187
COCH-ARM / FISHERS	P=0.320	P=0.102	P=0.753N	P=0.181
MAX-ISO-POLY-3	P=0.163	P=0.043*	P=0.490N	P=0.092

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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: Bile Duct Dilatation				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	1/44.94	0/43.71	2/46.49	3/45.96
POLY-3 PERCENT (g)	2.2%	0%	4.3%	6.5%
TERMINAL (d)	1/35 (3%)	0/32 (0%)	2/36 (6%)	2/29 (7%)
FIRST INCIDENCE	731 (T)	---	731 (T)	645
STATISTICAL TESTS				
POLY 3	P=0.118	P=0.506N	P=0.512	P=0.313
POLY 1.5	P=0.115	P=0.503N	P=0.508	P=0.311
POLY 6	P=0.121	P=0.510N	P=0.515	P=0.313
COCH-ARM / FISHERS	P=0.110	P=0.500N	P=0.500	P=0.309
MAX-ISO-POLY-3	P=0.125	P=0.165N	P=0.294	P=0.163

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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: Bile Duct Hyperplasia				
LESION RATES				
OVERALL (a)	5/50 (10%)	2/50 (4%)	3/50 (6%)	6/50 (12%)
POLY-3 RATE (b)	5/44.94	2/44.06	3/47.11	6/45.92
POLY-3 PERCENT (g)	11.1%	4.5%	6.4%	13.1%
TERMINAL (d)	5/35 (14%)	1/32 (3%)	1/36 (3%)	4/29 (14%)
FIRST INCIDENCE	731 (T)	633	603	691
STATISTICAL TESTS				
POLY 3	P=0.234	P=0.224N	P=0.331N	P=0.515
POLY 1.5	P=0.230	P=0.220N	P=0.341N	P=0.511
POLY 6	P=0.237	P=0.229N	P=0.321N	P=0.516
COCH-ARM / FISHERS	P=0.221	P=0.218N	P=0.357N	P=0.500
MAX-ISO-POLY-3	P=0.278	P=0.127N	P=0.216N	P=0.388

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
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Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Lung Inflammation Acute				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.94	0/43.71	0/46.49	0/45.65
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Lung				
Inflammation Lymphohistiocytic				
LESION RATES				
OVERALL (a)	3/50 (6%)	20/50 (40%)	42/50 (84%)	50/50 (100%)
POLY-3 RATE (b)	3/45.03	20/45.98	42/49.41	50/50.00
POLY-3 PERCENT (g)	6.7%	43.5%	85%	100%
TERMINAL (d)	2/35 (6%)	13/32 (41%)	30/36 (83%)	29/29 (100%)
FIRST INCIDENCE	709	530	598	523
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Lung: Alveolar Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	4/50 (8%)	3/50 (6%)	1/50 (2%)	7/50 (14%)
POLY-3 RATE (b)	4/45.77	3/44.21	1/46.54	7/46.20
POLY-3 PERCENT (g)	8.7%	6.8%	2.2%	15.2%
TERMINAL (d)	3/35 (9%)	1/32 (3%)	0/36 (0%)	4/29 (14%)
FIRST INCIDENCE	402	619	719	586
STATISTICAL TESTS				
POLY 3	P=0.088	P=0.519N	P=0.174N	P=0.266
POLY 1.5	P=0.087	P=0.511N	P=0.176N	P=0.265
POLY 6	P=0.089	P=0.528N	P=0.172N	P=0.264
COCH-ARM / FISHERS	P=0.086	P=0.500N	P=0.181N	P=0.262
MAX-ISO-POLY-3	P=0.083	P=0.367N	P=0.082N	P=0.174

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Lung: Bronchus-Associated Lymphoid Tissue Hyperplasia Lymphohistiocytic				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	5/50 (10%)
POLY-3 RATE (b)	0/44.94	0/43.71	0/46.49	5/46.00
POLY-3 PERCENT (g)	0%	0%	0%	10.9%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/36 (0%)	4/29 (14%)
FIRST INCIDENCE	---	---	---	635
STATISTICAL TESTS				
POLY 3	P<0.001**	(e)	(e)	P=0.032*
POLY 1.5	P<0.001**	(e)	(e)	P=0.032*
POLY 6	P<0.001**	(e)	(e)	P=0.032*
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.028*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.011*

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Lymph Node, Bronchial Hyperplasia Lymphohistiocytic				
LESION RATES				
OVERALL (a)	0/38 (0%)	0/35 (0%)	7/32 (22%)	30/35 (86%)
POLY-3 RATE (b)	0/34.28	0/29.63	7/29.48	30/34.77
POLY-3 PERCENT (g)	0%	0%	23.8%	86.3%
TERMINAL (d)	0/27 (0%)	0/21 (0%)	6/22 (27%)	16/20 (80%)
FIRST INCIDENCE	---	---	642	523
STATISTICAL TESTS				
POLY 3	P<0.001**	(e)	P=0.003**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.003**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.003**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.003**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P<0.001**	P<0.001**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Lymph Node, Mandibular Ectasia				
LESION RATES				
OVERALL (a)	0/49 (0%)	1/47 (2%)	0/43 (0%)	2/49 (4%)
POLY-3 RATE (b)	0/43.94	1/41.08	0/39.93	2/44.76
POLY-3 PERCENT (g)	0%	2.4%	0%	4.5%
TERMINAL (d)	0/34 (0%)	1/31 (3%)	0/30 (0%)	1/28 (4%)
FIRST INCIDENCE	---	731 (T)	---	703
STATISTICAL TESTS				
POLY 3	P=0.161	P=0.487	(e)	P=0.241
POLY 1.5	P=0.161	P=0.489	(e)	P=0.240
POLY 6	P=0.161	P=0.483	(e)	P=0.240
COCH-ARM / FISHERS	P=0.158	P=0.490	(e)	P=0.247
MAX-ISO-POLY-3	P=0.091	P=0.156	(e)	P=0.080

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Lymph Node, Mediastinal Hyperplasia Lymphohistiocytic				
LESION RATES				
OVERALL (a)	0/49 (0%)	0/46 (0%)	4/45 (9%)	23/47 (49%)
POLY-3 RATE (b)	0/43.94	0/39.71	4/42.30	23/43.92
POLY-3 PERCENT (g)	0%	0%	9.5%	52.4%
TERMINAL (d)	0/34 (0%)	0/28 (0%)	3/33 (9%)	14/27 (52%)
FIRST INCIDENCE	---	---	681	635
STATISTICAL TESTS				
POLY 3	P<0.001**	(e)	P=0.055	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.053	P<0.001**
POLY 6	P<0.001**	(e)	P=0.057	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.049*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.017*	P<0.001**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

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 First Dose M/F: 04/14/08 / 04/14/08
 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
Lymph Node, Mesenteric Ectasia				
LESION RATES				
OVERALL (a)	1/49 (2%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/44.23	1/44.06	0/46.49	1/45.65
POLY-3 PERCENT (g)	2.3%	2.3%	0%	2.2%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/36 (0%)	1/29 (3%)
FIRST INCIDENCE	698	633	---	731 (T)
STATISTICAL TESTS				
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: 20515 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (CIMSTAR 3800)
CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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First Dose M/F: 04/14/08 / 04/14/08
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
Lymph Node: Iliac Ectasia				
LESION RATES				
OVERALL (a)	0/2 (0%)	0/2 (0%)	0/1 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/2.00	0/1.42	0/0.81	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/2 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
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: 20515 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (CIMSTAR 3800)
CAS Number: CIMSTAR3800

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First Dose M/F: 04/14/08 / 04/14/08
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
Lymph Node: Lumbar Ectasia				
LESION RATES				
OVERALL (a)	0/2 (0%)	1/2 (50%)	0/1 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/2.00	1/1.61	0/0.81	0/0.00
POLY-3 PERCENT (g)	0%	62.2%	0%	0%
TERMINAL (d)	0/2 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	683	---	---
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Lymph Node: Lumbar Infiltration Cellular Plasma Cell				
LESION RATES				
OVERALL (a)	0/2 (0%)	0/2 (0%)	0/1 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/2.00	0/1.42	0/0.81	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/2 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Lymph Node: Renal Ectasia				
LESION RATES				
OVERALL (a)	1/2 (50%)	0/2 (0%)	0/1 (0%)	0/0 (0%)
POLY-3 RATE (b)	1/2.00	0/1.42	0/0.81	0/0.00
POLY-3 PERCENT (g)	50%	0%	0%	0%
TERMINAL (d)	1/2 (50%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	731 (T)	---	---	---
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Mammary Gland				
Galactocele				
LESION RATES				
OVERALL (a)	3/50 (6%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	3/44.94	1/43.88	2/46.80	1/45.68
POLY-3 PERCENT (g)	6.7%	2.3%	4.3%	2.2%
TERMINAL (d)	3/35 (9%)	0/32 (0%)	1/36 (3%)	0/29 (0%)
FIRST INCIDENCE	731 (T)	687	646	725
STATISTICAL TESTS				
POLY 3	P=0.337N	P=0.314N	P=0.482N	P=0.299N
POLY 1.5	P=0.341N	P=0.310N	P=0.488N	P=0.301N
POLY 6	P=0.335N	P=0.320N	P=0.475N	P=0.300N
COCH-ARM / FISHERS	P=0.347N	P=0.309N	P=0.500N	P=0.309N
MAX-ISO-POLY-3	P=0.223N	P=0.163N	P=0.311N	P=0.152N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
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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
Mammary Gland Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/44.94	0/43.71	0/46.49	2/45.65
POLY-3 PERCENT (g)	0%	0%	0%	4.4%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/36 (0%)	2/29 (7%)
FIRST INCIDENCE	---	---	---	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.042*	(e)	(e)	P=0.241
POLY 1.5	P=0.042*	(e)	(e)	P=0.240
POLY 6	P=0.042*	(e)	(e)	P=0.239
COCH-ARM / FISHERS	P=0.042*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.038*	(e)	(e)	P=0.079

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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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
Mesentery: Fat Necrosis				
LESION RATES				
OVERALL (a)	7/7 (100%)	8/8 (100%)	8/8 (100%)	4/5 (80%)
POLY-3 RATE (b)	7/7.00	8/8.00	8/8.00	4/4.78
POLY-3 PERCENT (g)	100%	100%	100%	83.7%
TERMINAL (d)	7/7 (100%)	5/5 (100%)	6/6 (100%)	4/4 (100%)
FIRST INCIDENCE	731 (T)	530	598	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.214N	(e)	(e)	P=0.538N
POLY 1.5	P=0.174N	(e)	(e)	P=0.481N
POLY 6	P=0.326N	(e)	(e)	P=0.669N
COCH-ARM / FISHERS	P=0.147N	(e)	(e)	P=0.417N
MAX-ISO-POLY-3	P=0.069N	(e)	(e)	P=0.136N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
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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
Nose				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/45.03	0/43.71	1/46.58	0/45.65
POLY-3 PERCENT (g)	4.4%	0%	2.2%	0%
TERMINAL (d)	1/35 (3%)	0/32 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	709	---	708	---
STATISTICAL TESTS				
POLY 3	P=0.268N	P=0.244N	P=0.488N	P=0.234N
POLY 1.5	P=0.271N	P=0.241N	P=0.492N	P=0.235N
POLY 6	P=0.265N	P=0.249N	P=0.485N	P=0.235N
COCH-ARM / FISHERS	P=0.276N	P=0.247N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.080N	P=0.082N	P=0.274N	P=0.076N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Nose: Goblet Cell Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	25/50 (50%)	34/50 (68%)	42/50 (84%)
POLY-3 RATE (b)	0/44.94	25/47.64	34/49.00	42/49.20
POLY-3 PERCENT (g)	0%	52.5%	69.4%	85.4%
TERMINAL (d)	0/35 (0%)	16/32 (50%)	22/36 (61%)	26/29 (90%)
FIRST INCIDENCE	---	481	603	523
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Nose: Olfactory Epithelium Accumulation, Hyaline Droplet				
LESION RATES				
OVERALL (a)	16/50 (32%)	50/50 (100%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	16/47.52	50/50.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	33.7%	100%	100%	100%
TERMINAL (d)	9/35 (26%)	32/32 (100%)	36/36 (100%)	29/29 (100%)
FIRST INCIDENCE	499	481	563	523
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
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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
Nose: Olfactory Epithelium, Glands Hyperplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	32/50 (64%)	48/50 (96%)	49/50 (98%)
POLY-3 RATE (b)	1/44.94	32/47.13	48/50.00	49/50.00
POLY-3 PERCENT (g)	2.2%	67.9%	96%	98%
TERMINAL (d)	1/35 (3%)	21/32 (66%)	34/36 (94%)	28/29 (97%)
FIRST INCIDENCE	731 (T)	530	563	523
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Nose: Respiratory Epithelium Accumulation, Hyaline Droplet				
LESION RATES				
OVERALL (a)	1/50 (2%)	24/50 (48%)	31/50 (62%)	34/50 (68%)
POLY-3 RATE (b)	1/44.94	24/46.06	31/49.28	34/48.68
POLY-3 PERCENT (g)	2.2%	52.1%	62.9%	69.9%
TERMINAL (d)	1/35 (3%)	17/32 (53%)	20/36 (56%)	22/29 (76%)
FIRST INCIDENCE	731 (T)	530	563	523
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Ovary Cyst				
LESION RATES				
OVERALL (a)	11/50 (22%)	9/50 (18%)	5/50 (10%)	11/50 (22%)
POLY-3 RATE (b)	11/45.39	9/44.51	5/46.59	11/46.42
POLY-3 PERCENT (g)	24.2%	20.2%	10.7%	23.7%
TERMINAL (d)	10/35 (29%)	7/32 (22%)	4/36 (11%)	6/29 (21%)
FIRST INCIDENCE	599	530	705	633
STATISTICAL TESTS				
POLY 3	P=0.445	P=0.419N	P=0.074N	P=0.573N
POLY 1.5	P=0.435	P=0.410N	P=0.078N	P=0.579N
POLY 6	P=0.452	P=0.435N	P=0.071N	P=0.571N
COCH-ARM / FISHERS	P=0.419	P=0.402N	P=0.086N	P=0.595N
MAX-ISO-POLY-3	P=0.324N	P=0.325N	P=0.044N*	P=0.475N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
 CAS Number: CIMSTAR3800

Date Report Requested: 05/08/2013
 Time Report Requested: 08:51:01
 First Dose M/F: 04/14/08 / 04/14/08
 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
Pancreas Atrophy				
LESION RATES				
OVERALL (a)	6/49 (12%)	4/50 (8%)	2/50 (4%)	5/50 (10%)
POLY-3 RATE (b)	6/45.67	4/43.90	2/47.04	5/46.29
POLY-3 PERCENT (g)	13.1%	9.1%	4.3%	10.8%
TERMINAL (d)	2/35 (6%)	3/32 (9%)	0/36 (0%)	4/29 (14%)
FIRST INCIDENCE	599	681	598	523
STATISTICAL TESTS				
POLY 3	P=0.581N	P=0.394N	P=0.124N	P=0.491N
POLY 1.5	P=0.583N	P=0.377N	P=0.124N	P=0.485N
POLY 6	P=0.583N	P=0.422N	P=0.126N	P=0.508N
COCH-ARM / FISHERS	P=0.587	P=0.357N	P=0.128N	P=0.486N
MAX-ISO-POLY-3	P=0.286N	P=0.279N	P=0.065N	P=0.365N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
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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
Pancreas				
Basophilic Focus				
LESION RATES				
OVERALL (a)	0/49 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.10	1/43.71	0/46.49	0/45.65
POLY-3 PERCENT (g)	0%	2.3%	0%	0%
TERMINAL (d)	0/35 (0%)	1/32 (3%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	---	731 (T)	---	---
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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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
Pituitary Gland: Pars Distalis Hyperplasia				
LESION RATES				
OVERALL (a)	8/50 (16%)	11/50 (22%)	10/50 (20%)	9/50 (18%)
POLY-3 RATE (b)	8/45.86	11/43.71	10/47.11	9/45.84
POLY-3 PERCENT (g)	17.4%	25.2%	21.2%	19.6%
TERMINAL (d)	6/35 (17%)	11/32 (34%)	8/36 (22%)	8/29 (28%)
FIRST INCIDENCE	402	731 (T)	603	681
STATISTICAL TESTS				
POLY 3	P=0.513N	P=0.262	P=0.421	P=0.500
POLY 1.5	P=0.517N	P=0.281	P=0.412	P=0.501
POLY 6	P=0.514N	P=0.239	P=0.432	P=0.493
COCH-ARM / FISHERS	P=0.527N	P=0.306	P=0.398	P=0.500
MAX-ISO-POLY-3	P=0.476	P=0.191	P=0.325	P=0.392

Experiment Number: 20515 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (CIMSTAR 3800)
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Date Report Requested: 05/08/2013
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First Dose M/F: 04/14/08 / 04/14/08
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
Pituitary Gland: Pars Intermedia Hyperplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/44.94	0/43.71	0/46.49	1/45.65
POLY-3 PERCENT (g)	2.2%	0%	0%	2.2%
TERMINAL (d)	1/35 (3%)	0/32 (0%)	0/36 (0%)	1/29 (3%)
FIRST INCIDENCE	731 (T)	---	---	731 (T)
STATISTICAL TESTS				
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: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
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Date Report Requested: 05/08/2013
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Skin				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	2/50 (4%)	4/50 (8%)	5/50 (10%)	4/50 (8%)
POLY-3 RATE (b)	2/44.94	4/44.09	5/46.98	4/45.97
POLY-3 PERCENT (g)	4.5%	9.1%	10.6%	8.7%
TERMINAL (d)	2/35 (6%)	2/32 (6%)	3/36 (8%)	2/29 (7%)
FIRST INCIDENCE	731 (T)	627	603	645
STATISTICAL TESTS				
POLY 3	P=0.436	P=0.328	P=0.235	P=0.348
POLY 1.5	P=0.430	P=0.333	P=0.228	P=0.345
POLY 6	P=0.439	P=0.321	P=0.241	P=0.348
COCH-ARM / FISHERS	P=0.416	P=0.339	P=0.218	P=0.339
MAX-ISO-POLY-3	P=0.302	P=0.196	P=0.137	P=0.211

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Spleen				
Hematopoietic Cell Proliferation				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	1/45.03	2/44.82	3/47.21	1/45.72
POLY-3 PERCENT (g)	2.2%	4.5%	6.4%	2.2%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	709	481	646	715
STATISTICAL TESTS				
POLY 3	P=0.494N	P=0.498	P=0.323	P=0.757N
POLY 1.5	P=0.496N	P=0.500	P=0.316	P=0.758N
POLY 6	P=0.495N	P=0.495	P=0.329	P=0.759N
COCH-ARM / FISHERS	P=0.501N	P=0.500	P=0.309	P=0.753N
MAX-ISO-POLY-3	P=0.475N	P=0.279	P=0.172	P=0.495N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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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
Stomach, Forestomach Inflammation Acute				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/45.77	0/43.71	2/46.72	0/45.65
POLY-3 PERCENT (g)	2.2%	0%	4.3%	0%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	402	---	683	---
STATISTICAL TESTS				
POLY 3	P=0.435N	P=0.509N	P=0.507	P=0.501N
POLY 1.5	P=0.438N	P=0.505N	P=0.504	P=0.500N
POLY 6	P=0.432N	P=0.514N	P=0.510	P=0.502N
COCH-ARM / FISHERS	P=0.444N	P=0.500N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.332N	P=0.170N	P=0.289	P=0.159N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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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
Stomach, Forestomach Ulcer				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/45.77	1/44.33	1/46.54	2/46.03
POLY-3 PERCENT (g)	2.2%	2.3%	2.2%	4.4%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	402	530	719	673
STATISTICAL TESTS				
POLY 3	P=0.370	P=0.754	P=0.757N	P=0.502
POLY 1.5	P=0.368	P=0.756	P=0.758N	P=0.501
POLY 6	P=0.372	P=0.750	P=0.756N	P=0.501
COCH-ARM / FISHERS	P=0.363	P=0.753N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.427	P=0.490	P=0.495N	P=0.283

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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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
Stomach, Glandular Necrosis				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/45.86	0/43.71	0/46.49	0/45.65
POLY-3 PERCENT (g)	4.4%	0%	0%	0%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	402	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.252N	P=0.248N	P=0.234N	P=0.238N
POLY 1.5	P=0.255N	P=0.243N	P=0.235N	P=0.238N
POLY 6	P=0.248N	P=0.254N	P=0.234N	P=0.240N
COCH-ARM / FISHERS	P=0.260N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.036N*	P=0.086N	P=0.076N	P=0.077N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
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 First Dose M/F: 04/14/08 / 04/14/08
 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
Thyroid Gland: C-Cell Hyperplasia				
LESION RATES				
OVERALL (a)	37/50 (74%)	44/50 (88%)	43/50 (86%)	35/49 (71%)
POLY-3 RATE (b)	37/47.57	44/48.59	43/49.04	35/47.22
POLY-3 PERCENT (g)	77.8%	90.6%	87.7%	74.1%
TERMINAL (d)	28/35 (80%)	30/32 (94%)	32/36 (89%)	23/29 (79%)
FIRST INCIDENCE	499	481	598	523
STATISTICAL TESTS				
POLY 3	P=0.092N	P=0.063	P=0.144	P=0.428N
POLY 1.5	P=0.101N	P=0.063	P=0.127	P=0.438N
POLY 6	P=0.098N	P=0.063	P=0.166	P=0.441N
COCH-ARM / FISHERS	P=0.130N	P=0.062	P=0.105	P=0.475N
MAX-ISO-POLY-3	P=0.103N	P=0.035*	P=0.093	P=0.333N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (CIMSTAR 3800)
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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
Thyroid Gland: Follicular Cell Hyperplasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	1/49 (2%)
POLY-3 RATE (b)	2/44.94	0/43.71	1/46.49	1/45.01
POLY-3 PERCENT (g)	4.5%	0%	2.2%	2.2%
TERMINAL (d)	2/35 (6%)	0/32 (0%)	1/36 (3%)	1/29 (3%)
FIRST INCIDENCE	731 (T)	---	731 (T)	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.623N	P=0.243N	P=0.488N	P=0.499N
POLY 1.5	P=0.627N	P=0.240N	P=0.492N	P=0.502N
POLY 6	P=0.619N	P=0.248N	P=0.485N	P=0.500N
COCH-ARM / FISHERS	P=0.634N	P=0.247N	P=0.500N	P=0.508N
MAX-ISO-POLY-3	P=0.279N	P=0.082N	P=0.274N	P=0.281N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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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
Uterus: Cervix Hypertrophy				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/45.33	0/43.71	1/46.81	1/45.65
POLY-3 PERCENT (g)	4.4%	0%	2.1%	2.2%
TERMINAL (d)	1/35 (3%)	0/32 (0%)	0/36 (0%)	1/29 (3%)
FIRST INCIDENCE	619	---	642	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.617N	P=0.245N	P=0.489N	P=0.498N
POLY 1.5	P=0.621N	P=0.241N	P=0.493N	P=0.497N
POLY 6	P=0.614N	P=0.251N	P=0.486N	P=0.501N
COCH-ARM / FISHERS	P=0.627N	P=0.247N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.278N	P=0.084N	P=0.274N	P=0.279N

Experiment Number: 20515 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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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
Uterus: Endometrium Hyperplasia Cystic				
LESION RATES				
OVERALL (a)	11/50 (22%)	4/50 (8%)	9/50 (18%)	5/50 (10%)
POLY-3 RATE (b)	11/45.02	4/43.71	9/46.49	5/45.83
POLY-3 PERCENT (g)	24.4%	9.2%	19.4%	10.9%
TERMINAL (d)	10/35 (29%)	4/32 (13%)	9/36 (25%)	3/29 (10%)
FIRST INCIDENCE	712	731 (T)	731 (T)	703
STATISTICAL TESTS				
POLY 3	P=0.168N	P=0.048N*	P=0.369N	P=0.076N
POLY 1.5	P=0.177N	P=0.046N*	P=0.380N	P=0.079N
POLY 6	P=0.160N	P=0.052N	P=0.362N	P=0.075N
COCH-ARM / FISHERS	P=0.193N	P=0.045N*	P=0.402N	P=0.086N
MAX-ISO-POLY-3	P=0.063N	P=0.027N*	P=0.282N	P=0.045N*

Experiment Number: 20515 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (CIMSTAR 3800)
CAS Number: CIMSTAR3800

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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 ***