

Experiment Number: 20515 - 04
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
Time Report Requested: 14:13:47
First Dose M/F: 05/05/08 / 05/05/08
Lab: BNW

F1_M3

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: NONE

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF METAL WORKING FLUIDS (CIMSTAR 3800)

MALE MICE

Organ

Eye: Cornea

Larynx

Liver

Lung: Bronchiole

Nose: Olfactory Epithelium

Nose: Respiratory Epithelium

Morphology

Inflammation Chronic

Vacuolization Cytoplasmic

Inflammation Chronic

Metaplasia

Clear Cell Focus

Eosinophilic Focus

Hyperplasia

Accumulation, Hyaline Droplet

Atrophy

Metaplasia Respiratory

Accumulation, Hyaline Droplet

Metaplasia

FEMALE MICE

Organ

Heart

Larynx

Liver

Lung: Bronchiole

Lung: Perivascular

Mesentery: Fat

Nose

Nose: Olfactory Epithelium

Nose: Respiratory Epithelium

Ovary

Ovary: Corpus Luteum

Skeletal Muscle

Uterus

Morphology

Cardiomyopathy

Inflammation Chronic

Metaplasia

Necrosis

Eosinophilic Focus

Hyperplasia

Inflammation Chronic

Necrosis

Inflammation Chronic

Accumulation, Hyaline Droplet

Metaplasia Respiratory

Accumulation, Hyaline Droplet

Hyperplasia

Angiectasis

Hyperplasia

Infiltration Cellular Lymphocyte

Angiectasis

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF METAL WORKING FLUIDS (CIMSTAR 3800)

Uterus: Endometrium

Hyperplasia Cystic

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|---------------------------------------|-------------|-------------|-------------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Adrenal Cortex Hyperplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 24/49 (49%) | 23/50 (46%) | 26/50 (52%) | 24/50 (48%) |
| POLY-3 RATE (b) | 24/46.39 | 23/44.55 | 26/44.57 | 24/47.89 |
| POLY-3 PERCENT (g) | 51.7% | 51.6% | 58.3% | 50.1% |
| TERMINAL (d) | 22/39 (56%) | 19/31 (61%) | 24/36 (67%) | 22/40 (55%) |
| FIRST INCIDENCE | 559 | 556 | 683 | 344 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.453N | P=0.580N | P=0.334 | P=0.519N |
| POLY 1.5 | P=0.491N | P=0.526N | P=0.386 | P=0.525N |
| POLY 6 | P=0.416N | P=0.511 | P=0.272 | P=0.525N |
| COCH-ARM / FISHERS | P=0.549N | P=0.462N | P=0.460 | P=0.541N |
| MAX-ISO-POLY-3 | P=0.559N | P=0.495N | P=0.265 | P=0.436N |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|----------------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Adrenal Cortex | | | | |
| Vacuolization Cytoplasmic | | | | |
| <hr/> | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/49 (0%) | 0/50 (0%) | 0/50 (0%) | 0/50 (0%) |
| POLY-3 RATE (b) | 0/45.82 | 0/43.16 | 0/44.33 | 0/46.48 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/39 (0%) | 0/31 (0%) | 0/36 (0%) | 0/40 (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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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Adrenal Medulla Hyperplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/48 (0%) | 1/50 (2%) | 0/50 (0%) | 2/50 (4%) |
| POLY-3 RATE (b) | 0/44.84 | 1/43.52 | 0/44.33 | 2/46.48 |
| POLY-3 PERCENT (g) | 0% | 2.3% | 0% | 4.3% |
| TERMINAL (d) | 0/39 (0%) | 0/31 (0%) | 0/36 (0%) | 2/40 (5%) |
| FIRST INCIDENCE | --- | 628 | --- | 729 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.154 | P=0.494 | (e) | P=0.245 |
| POLY 1.5 | P=0.154 | P=0.500 | (e) | P=0.246 |
| POLY 6 | P=0.155 | P=0.485 | (e) | P=0.244 |
| COCH-ARM / FISHERS | P=0.153 | P=0.510 | (e) | P=0.258 |
| MAX-ISO-POLY-3 | P=0.086 | P=0.161 | (e) | P=0.081 |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|-----------------------------|------------|------------|-------------|------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Bone | | | | |
| Fibro-osseous Lesion | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 7/50 (14%) | 7/50 (14%) | 10/50 (20%) | 7/50 (14%) |
| POLY-3 RATE (b) | 7/46.68 | 7/43.22 | 10/44.76 | 7/46.73 |
| POLY-3 PERCENT (g) | 15% | 16.2% | 22.3% | 15% |
| TERMINAL (d) | 7/39 (18%) | 6/31 (19%) | 8/36 (22%) | 6/40 (15%) |
| FIRST INCIDENCE | 729 (T) | 713 | 645 | 661 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.507N | P=0.553 | P=0.263 | P=0.612N |
| POLY 1.5 | P=0.524N | P=0.580 | P=0.277 | P=0.612 |
| POLY 6 | P=0.486N | P=0.512 | P=0.248 | P=0.612N |
| COCH-ARM / FISHERS | P=0.542N | P=0.613N | P=0.298 | P=0.613N |
| MAX-ISO-POLY-3 | P=0.511 | P=0.439 | P=0.189 | P=0.498N |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|-----------------------------|-----------|-----------|-----------|------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Bone: Cranium | | | | |
| Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 3/50 (6%) | 2/50 (4%) | 3/50 (6%) | 5/50 (10%) |
| POLY-3 RATE (b) | 3/46.68 | 2/43.62 | 3/44.78 | 5/46.56 |
| POLY-3 PERCENT (g) | 6.4% | 4.6% | 6.7% | 10.7% |
| TERMINAL (d) | 3/39 (8%) | 1/31 (3%) | 1/36 (3%) | 4/40 (10%) |
| FIRST INCIDENCE | 729 (T) | 591 | 640 | 709 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.202 | P=0.531N | P=0.643 | P=0.355 |
| POLY 1.5 | P=0.196 | P=0.517N | P=0.650 | P=0.355 |
| POLY 6 | P=0.210 | P=0.551N | P=0.634 | P=0.354 |
| COCH-ARM / FISHERS | P=0.188 | P=0.500N | P=0.661N | P=0.357 |
| MAX-ISO-POLY-3 | P=0.265 | P=0.356N | P=0.478 | P=0.230 |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|------------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Brain Compression | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 0/50 (0%) | 0/50 (0%) | 0/50 (0%) |
| POLY-3 RATE (b) | 0/46.68 | 0/43.16 | 0/44.33 | 0/46.48 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/39 (0%) | 0/31 (0%) | 0/36 (0%) | 0/40 (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) |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Epididymis Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 1/50 (2%) | 0/50 (0%) | 2/50 (4%) |
| POLY-3 RATE (b) | 1/46.70 | 1/43.63 | 0/44.33 | 2/46.56 |
| POLY-3 PERCENT (g) | 2.1% | 2.3% | 0% | 4.3% |
| TERMINAL (d) | 0/39 (0%) | 0/31 (0%) | 0/36 (0%) | 1/40 (3%) |
| FIRST INCIDENCE | 725 | 590 | --- | 709 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.335 | P=0.745 | P=0.510N | P=0.499 |
| POLY 1.5 | P=0.331 | P=0.752 | P=0.506N | P=0.499 |
| POLY 6 | P=0.339 | P=0.735 | P=0.516N | P=0.498 |
| COCH-ARM / FISHERS | P=0.327 | P=0.753N | P=0.500N | P=0.500 |
| MAX-ISO-POLY-3 | P=0.286 | P=0.480 | P=0.172N | P=0.280 |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Eye Atrophy | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 0/50 (0%) | 0/50 (0%) | 0/50 (0%) |
| POLY-3 RATE (b) | 1/46.68 | 0/43.16 | 0/44.33 | 0/46.48 |
| POLY-3 PERCENT (g) | 2.1% | 0% | 0% | 0% |
| TERMINAL (d) | 1/39 (3%) | 0/31 (0%) | 0/36 (0%) | 0/40 (0%) |
| 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) |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|-----------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Eye: Cornea | | | | |
| Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 4/50 (8%) | 2/50 (4%) | 2/50 (4%) |
| POLY-3 RATE (b) | 0/46.68 | 4/43.90 | 2/44.39 | 2/46.48 |
| POLY-3 PERCENT (g) | 0% | 9.1% | 4.5% | 4.3% |
| TERMINAL (d) | 0/39 (0%) | 1/31 (3%) | 1/36 (3%) | 2/40 (5%) |
| FIRST INCIDENCE | --- | 591 | 715 | 729 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.555 | P=0.053 | P=0.226 | P=0.236 |
| POLY 1.5 | P=0.555 | P=0.056 | P=0.231 | P=0.236 |
| POLY 6 | P=0.553 | P=0.048* | P=0.220 | P=0.236 |
| COCH-ARM / FISHERS | P=0.556 | P=0.059 | P=0.247 | P=0.247 |
| MAX-ISO-POLY-3 | P=0.127 | P=0.019* | P=0.076 | P=0.076 |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|----------------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Eye: Cornea | | | | |
| Vacuolization Cytoplasmic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 2/50 (4%) | 0/50 (0%) | 0/50 (0%) | 0/50 (0%) |
| POLY-3 RATE (b) | 2/46.68 | 0/43.16 | 0/44.33 | 0/46.48 |
| POLY-3 PERCENT (g) | 4.3% | 0% | 0% | 0% |
| TERMINAL (d) | 2/39 (5%) | 0/31 (0%) | 0/36 (0%) | 0/40 (0%) |
| FIRST INCIDENCE | 729 (T) | --- | --- | --- |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.244N | P=0.255N | P=0.249N | P=0.238N |
| POLY 1.5 | P=0.250N | P=0.247N | P=0.244N | P=0.238N |
| POLY 6 | P=0.234N | P=0.267N | P=0.255N | P=0.239N |
| COCH-ARM / FISHERS | P=0.260N | P=0.247N | P=0.247N | P=0.247N |
| MAX-ISO-POLY-3 | P=0.036N* | P=0.093N | P=0.087N | P=0.077N |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|-------------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Eye: Lens Degeneration | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 1/50 (2%) | 0/50 (0%) | 1/50 (2%) |
| POLY-3 RATE (b) | 1/46.68 | 1/43.24 | 0/44.33 | 1/46.48 |
| POLY-3 PERCENT (g) | 2.1% | 2.3% | 0% | 2.2% |
| TERMINAL (d) | 1/39 (3%) | 0/31 (0%) | 0/36 (0%) | 1/40 (3%) |
| FIRST INCIDENCE | 729 (T) | 709 | --- | 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) |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Harderian Gland Hyperplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 2/50 (4%) | 1/50 (2%) | 3/49 (6%) | 2/50 (4%) |
| POLY-3 RATE (b) | 2/46.68 | 1/43.16 | 3/44.02 | 2/46.48 |
| POLY-3 PERCENT (g) | 4.3% | 2.3% | 6.8% | 4.3% |
| TERMINAL (d) | 2/39 (5%) | 1/31 (3%) | 1/35 (3%) | 2/40 (5%) |
| FIRST INCIDENCE | 729 (T) | 729 (T) | 573 | 729 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.571 | P=0.527N | P=0.473 | P=0.692 |
| POLY 1.5 | P=0.562 | P=0.515N | P=0.480 | P=0.692 |
| POLY 6 | P=0.583 | P=0.545N | P=0.465 | P=0.691 |
| COCH-ARM / FISHERS | P=0.552 | P=0.500N | P=0.490 | P=0.691N |
| MAX-ISO-POLY-3 | P=0.485 | P=0.310N | P=0.304 | P=0.497 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Heart | | | | |
| Cardiomyopathy | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 2/50 (4%) | 3/50 (6%) | 1/50 (2%) | 2/50 (4%) |
| POLY-3 RATE (b) | 2/46.68 | 3/43.68 | 1/44.66 | 2/46.48 |
| POLY-3 PERCENT (g) | 4.3% | 6.9% | 2.2% | 4.3% |
| TERMINAL (d) | 2/39 (5%) | 0/31 (0%) | 0/36 (0%) | 2/40 (5%) |
| FIRST INCIDENCE | 729 (T) | 620 | 640 | 729 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.545N | P=0.470 | P=0.515N | P=0.692 |
| POLY 1.5 | P=0.548N | P=0.483 | P=0.509N | P=0.692 |
| POLY 6 | P=0.542N | P=0.451 | P=0.523N | P=0.691 |
| COCH-ARM / FISHERS | P=0.552N | P=0.500 | P=0.500N | P=0.691N |
| MAX-ISO-POLY-3 | P=0.478N | P=0.303 | P=0.297N | P=0.497 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Heart Thrombosis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 0/50 (0%) | 0/50 (0%) | 2/50 (4%) |
| POLY-3 RATE (b) | 1/46.91 | 0/43.16 | 0/44.33 | 2/47.00 |
| POLY-3 PERCENT (g) | 2.1% | 0% | 0% | 4.3% |
| TERMINAL (d) | 0/39 (0%) | 0/31 (0%) | 0/36 (0%) | 1/40 (3%) |
| FIRST INCIDENCE | 669 | --- | --- | 572 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.198 | P=0.517N | P=0.511N | P=0.501 |
| POLY 1.5 | P=0.192 | P=0.509N | P=0.507N | P=0.500 |
| POLY 6 | P=0.205 | P=0.528N | P=0.517N | P=0.500 |
| COCH-ARM / FISHERS | P=0.186 | P=0.500N | P=0.500N | P=0.500 |
| MAX-ISO-POLY-3 | P=0.142 | P=0.179N | P=0.173N | P=0.281 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Intestine Small, Ileum Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 0/50 (0%) | 2/49 (4%) | 2/48 (4%) |
| POLY-3 RATE (b) | 0/46.68 | 0/43.16 | 2/44.11 | 2/45.83 |
| POLY-3 PERCENT (g) | 0% | 0% | 4.5% | 4.4% |
| TERMINAL (d) | 0/39 (0%) | 0/31 (0%) | 2/36 (6%) | 1/40 (3%) |
| FIRST INCIDENCE | --- | --- | 729 (T) | 709 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.138 | (e) | P=0.225 | P=0.233 |
| POLY 1.5 | P=0.133 | (e) | P=0.228 | P=0.231 |
| POLY 6 | P=0.145 | (e) | P=0.220 | P=0.234 |
| COCH-ARM / FISHERS | P=0.125 | (e) | P=0.242 | P=0.237 |
| MAX-ISO-POLY-3 | P=0.113 | (e) | P=0.075 | P=0.074 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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%) | 2/50 (4%) | 3/50 (6%) | 5/50 (10%) |
| POLY-3 RATE (b) | 4/46.68 | 2/43.16 | 3/44.33 | 5/46.48 |
| POLY-3 PERCENT (g) | 8.6% | 4.6% | 6.8% | 10.8% |
| TERMINAL (d) | 4/39 (10%) | 2/31 (7%) | 3/36 (8%) | 5/40 (13%) |
| FIRST INCIDENCE | 729 (T) | 729 (T) | 729 (T) | 729 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.294 | P=0.374N | P=0.528N | P=0.497 |
| POLY 1.5 | P=0.284 | P=0.358N | P=0.517N | P=0.498 |
| POLY 6 | P=0.306 | P=0.399N | P=0.543N | P=0.495 |
| COCH-ARM / FISHERS | P=0.272 | P=0.339N | P=0.500N | P=0.500 |
| MAX-ISO-POLY-3 | P=0.372 | P=0.238N | P=0.376N | P=0.361 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Kidney Infarct | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 3/50 (6%) | 1/50 (2%) | 4/50 (8%) | 2/50 (4%) |
| POLY-3 RATE (b) | 3/47.38 | 1/43.16 | 4/45.95 | 2/46.48 |
| POLY-3 PERCENT (g) | 6.3% | 2.3% | 8.7% | 4.3% |
| TERMINAL (d) | 1/39 (3%) | 1/31 (3%) | 1/36 (3%) | 2/40 (5%) |
| FIRST INCIDENCE | 592 | 729 (T) | 447 | 729 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.533N | P=0.340N | P=0.483 | P=0.509N |
| POLY 1.5 | P=0.542N | P=0.324N | P=0.491 | P=0.505N |
| POLY 6 | P=0.523N | P=0.363N | P=0.473 | P=0.514N |
| COCH-ARM / FISHERS | P=0.552N | P=0.309N | P=0.500 | P=0.500N |
| MAX-ISO-POLY-3 | P=0.524 | P=0.189N | P=0.335 | P=0.333N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|---------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Kidney | | | | |
| Metaplasia Osseous | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 1/50 (2%) | 0/50 (0%) | 0/50 (0%) |
| POLY-3 RATE (b) | 1/46.68 | 1/43.16 | 0/44.33 | 0/46.48 |
| POLY-3 PERCENT (g) | 2.1% | 2.3% | 0% | 0% |
| TERMINAL (d) | 1/39 (3%) | 1/31 (3%) | 0/36 (0%) | 0/40 (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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|---------------------------|--------------|-------------|--------------|--------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Kidney Nephropathy | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 48/50 (96%) | 48/50 (96%) | 45/50 (90%) | 48/50 (96%) |
| POLY-3 RATE (b) | 48/49.85 | 48/49.22 | 45/47.01 | 48/48.59 |
| POLY-3 PERCENT (g) | 96.3% | 97.5% | 95.7% | 98.8% |
| TERMINAL (d) | 39/39 (100%) | 30/31 (97%) | 36/36 (100%) | 40/40 (100%) |
| FIRST INCIDENCE | 499 | 547 | 438 | 590 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.346 | P=0.594 | P=0.675N | P=0.435 |
| POLY 1.5 | P=0.430 | P=0.627 | P=0.436N | P=0.532 |
| POLY 6 | P=0.272 | P=0.589 | P=0.575 | P=0.362 |
| COCH-ARM / FISHERS | P=0.566 | P=0.691N | P=0.218N | P=0.691N |
| MAX-ISO-POLY-3 | P=0.311 | P=0.356 | P=0.432N | P=0.192 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Kidney: Artery Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 3/50 (6%) | 0/50 (0%) | 0/50 (0%) |
| POLY-3 RATE (b) | 1/46.70 | 3/43.60 | 0/44.33 | 0/46.48 |
| POLY-3 PERCENT (g) | 2.1% | 6.9% | 0% | 0% |
| TERMINAL (d) | 0/39 (0%) | 2/31 (7%) | 0/36 (0%) | 0/40 (0%) |
| FIRST INCIDENCE | 725 | 598 | --- | --- |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.163N | P=0.281 | P=0.510N | P=0.501N |
| POLY 1.5 | P=0.162N | P=0.292 | P=0.506N | P=0.501N |
| POLY 6 | P=0.165N | P=0.265 | P=0.516N | P=0.502N |
| COCH-ARM / FISHERS | P=0.162N | P=0.309 | P=0.500N | P=0.500N |
| MAX-ISO-POLY-3 | P=0.111N | P=0.145 | P=0.172N | P=0.160N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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%) | 3/49 (6%) | 8/50 (16%) |
| POLY-3 RATE (b) | 0/46.68 | 2/43.62 | 3/44.45 | 8/47.34 |
| POLY-3 PERCENT (g) | 0% | 4.6% | 6.8% | 16.9% |
| TERMINAL (d) | 0/39 (0%) | 1/31 (3%) | 1/35 (3%) | 5/40 (13%) |
| FIRST INCIDENCE | --- | 591 | 534 | 572 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P<0.001** | P=0.222 | P=0.110 | P=0.004** |
| POLY 1.5 | P<0.001** | P=0.229 | P=0.112 | P=0.004** |
| POLY 6 | P<0.001** | P=0.213 | P=0.107 | P=0.004** |
| COCH-ARM / FISHERS | P<0.001** | P=0.247 | P=0.117 | P=0.003** |
| MAX-ISO-POLY-3 | P<0.001** | P=0.076 | P=0.037* | P<0.001** |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--------------------------|-----------|--------------|--------------|--------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Larynx Metaplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 50/50 (100%) | 49/49 (100%) | 50/50 (100%) |
| POLY-3 RATE (b) | 0/46.68 | 50/50.00 | 49/49.00 | 50/50.00 |
| POLY-3 PERCENT (g) | 0% | 100% | 100% | 100% |
| TERMINAL (d) | 0/39 (0%) | 31/31 (100%) | 35/35 (100%) | 40/40 (100%) |
| FIRST INCIDENCE | --- | 439 | 438 | 344 |
| 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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Larynx Necrosis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 1/50 (2%) | 1/49 (2%) | 1/50 (2%) |
| POLY-3 RATE (b) | 0/46.68 | 1/43.62 | 1/43.94 | 1/46.73 |
| POLY-3 PERCENT (g) | 0% | 2.3% | 2.3% | 2.1% |
| TERMINAL (d) | 0/39 (0%) | 0/31 (0%) | 0/35 (0%) | 0/40 (0%) |
| FIRST INCIDENCE | --- | 591 | 534 | 662 |
| 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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Liver | | | | |
| Angiectasis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 1/50 (2%) | 0/50 (0%) | 0/49 (0%) |
| POLY-3 RATE (b) | 0/46.68 | 1/43.25 | 0/44.33 | 0/45.73 |
| POLY-3 PERCENT (g) | 0% | 2.3% | 0% | 0% |
| TERMINAL (d) | 0/39 (0%) | 0/31 (0%) | 0/36 (0%) | 0/40 (0%) |
| FIRST INCIDENCE | --- | 706 | --- | --- |
| 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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--------------------------|-----------|-----------|-----------|------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Liver | | | | |
| Basophilic Focus | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 3/50 (6%) | 0/50 (0%) | 4/49 (8%) |
| POLY-3 RATE (b) | 1/46.68 | 3/43.50 | 0/44.33 | 4/45.73 |
| POLY-3 PERCENT (g) | 2.1% | 6.9% | 0% | 8.8% |
| TERMINAL (d) | 1/39 (3%) | 2/31 (7%) | 0/36 (0%) | 4/40 (10%) |
| FIRST INCIDENCE | 729 (T) | 632 | --- | 729 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.141 | P=0.280 | P=0.510N | P=0.173 |
| POLY 1.5 | P=0.140 | P=0.292 | P=0.506N | P=0.172 |
| POLY 6 | P=0.143 | P=0.265 | P=0.516N | P=0.173 |
| COCH-ARM / FISHERS | P=0.140 | P=0.309 | P=0.500N | P=0.175 |
| MAX-ISO-POLY-3 | P=0.095 | P=0.145 | P=0.172N | P=0.081 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 10/50 (20%) | 9/50 (18%) | 3/50 (6%) | 6/49 (12%) |
| POLY-3 RATE (b) | 10/46.68 | 9/43.16 | 3/44.33 | 6/45.73 |
| POLY-3 PERCENT (g) | 21.4% | 20.9% | 6.8% | 13.1% |
| TERMINAL (d) | 10/39 (26%) | 9/31 (29%) | 3/36 (8%) | 6/40 (15%) |
| FIRST INCIDENCE | 729 (T) | 729 (T) | 729 (T) | 729 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.180N | P=0.576N | P=0.043N* | P=0.218N |
| POLY 1.5 | P=0.190N | P=0.542N | P=0.039N* | P=0.220N |
| POLY 6 | P=0.168N | P=0.578 | P=0.047N* | P=0.217N |
| COCH-ARM / FISHERS | P=0.203N | P=0.500N | P=0.036N* | P=0.220N |
| MAX-ISO-POLY-3 | P=0.099N | P=0.474N | P=0.024N* | P=0.147N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|---------------------------|-------------|------------|-------------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Liver | | | | |
| Eosinophilic Focus | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 14/50 (28%) | 3/50 (6%) | 20/50 (40%) | 17/49 (35%) |
| POLY-3 RATE (b) | 14/46.68 | 3/43.16 | 20/45.78 | 17/45.73 |
| POLY-3 PERCENT (g) | 30% | 7% | 43.7% | 37.2% |
| TERMINAL (d) | 14/39 (36%) | 3/31 (10%) | 17/36 (47%) | 17/40 (43%) |
| FIRST INCIDENCE | 729 (T) | 729 (T) | 534 | 729 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.046* | P=0.005N** | P=0.122 | P=0.304 |
| POLY 1.5 | P=0.040* | P=0.004N** | P=0.131 | P=0.304 |
| POLY 6 | P=0.058 | P=0.006N** | P=0.113 | P=0.304 |
| COCH-ARM / FISHERS | P=0.040* | P=0.003N** | P=0.146 | P=0.308 |
| MAX-ISO-POLY-3 | P=0.014* | P=0.003N** | P=0.086 | P=0.234 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|---------------------------|-------------|-------------|-------------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Liver | | | | |
| Fatty Change | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 24/50 (48%) | 22/50 (44%) | 24/50 (48%) | 25/49 (51%) |
| POLY-3 RATE (b) | 24/47.36 | 22/45.04 | 24/47.36 | 25/45.73 |
| POLY-3 PERCENT (g) | 50.7% | 48.8% | 50.7% | 54.7% |
| TERMINAL (d) | 23/39 (59%) | 17/31 (55%) | 18/36 (50%) | 25/40 (63%) |
| FIRST INCIDENCE | 499 | 439 | 447 | 729 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.345 | P=0.513N | P=0.582 | P=0.429 |
| POLY 1.5 | P=0.339 | P=0.469N | P=0.579 | P=0.438 |
| POLY 6 | P=0.360 | P=0.580N | P=0.580N | P=0.418 |
| COCH-ARM / FISHERS | P=0.342 | P=0.421N | P=0.579N | P=0.460 |
| MAX-ISO-POLY-3 | P=0.507 | P=0.429N | P=0.499 | P=0.349 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 6/50 (12%) | 4/50 (8%) | 11/50 (22%) | 5/49 (10%) |
| POLY-3 RATE (b) | 6/46.68 | 4/43.16 | 11/44.33 | 5/45.73 |
| POLY-3 PERCENT (g) | 12.9% | 9.3% | 24.8% | 10.9% |
| TERMINAL (d) | 6/39 (15%) | 4/31 (13%) | 11/36 (31%) | 5/40 (13%) |
| FIRST INCIDENCE | 729 (T) | 729 (T) | 729 (T) | 729 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.475N | P=0.420N | P=0.115 | P=0.514N |
| POLY 1.5 | P=0.493N | P=0.397N | P=0.126 | P=0.515N |
| POLY 6 | P=0.450N | P=0.454N | P=0.102 | P=0.514N |
| COCH-ARM / FISHERS | P=0.513N | P=0.370N | P=0.143 | P=0.514N |
| MAX-ISO-POLY-3 | P=0.289 | P=0.303N | P=0.075 | P=0.387N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|---------------------------|------------|------------|------------|------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Liver Necrosis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 5/50 (10%) | 7/50 (14%) | 6/50 (12%) | 7/49 (14%) |
| POLY-3 RATE (b) | 5/47.01 | 7/44.81 | 6/46.25 | 7/46.83 |
| POLY-3 PERCENT (g) | 10.6% | 15.6% | 13% | 15% |
| TERMINAL (d) | 2/39 (5%) | 2/31 (7%) | 1/36 (3%) | 4/40 (10%) |
| FIRST INCIDENCE | 669 | 556 | 534 | 590 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.424 | P=0.346 | P=0.489 | P=0.377 |
| POLY 1.5 | P=0.411 | P=0.361 | P=0.493 | P=0.371 |
| POLY 6 | P=0.443 | P=0.322 | P=0.484 | P=0.384 |
| COCH-ARM / FISHERS | P=0.396 | P=0.380 | P=0.500 | P=0.365 |
| MAX-ISO-POLY-3 | P=0.436 | P=0.246 | P=0.364 | P=0.268 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--------------------------|-----------|-----------|------------|------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Liver | | | | |
| Tension Lipidosis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 3/50 (6%) | 2/50 (4%) | 5/50 (10%) | 7/49 (14%) |
| POLY-3 RATE (b) | 3/46.68 | 2/43.16 | 5/44.33 | 7/46.16 |
| POLY-3 PERCENT (g) | 6.4% | 4.6% | 11.3% | 15.2% |
| TERMINAL (d) | 3/39 (8%) | 2/31 (7%) | 5/36 (14%) | 6/40 (15%) |
| FIRST INCIDENCE | 729 (T) | 729 (T) | 729 (T) | 607 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.063 | P=0.536N | P=0.328 | P=0.153 |
| POLY 1.5 | P=0.058 | P=0.520N | P=0.340 | P=0.151 |
| POLY 6 | P=0.070 | P=0.559N | P=0.314 | P=0.155 |
| COCH-ARM / FISHERS | P=0.054 | P=0.500N | P=0.357 | P=0.151 |
| MAX-ISO-POLY-3 | P=0.086 | P=0.361N | P=0.214 | P=0.087 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
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 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Lung Hemorrhage | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 0/50 (0%) | 2/50 (4%) | 1/50 (2%) |
| POLY-3 RATE (b) | 0/46.68 | 0/43.16 | 2/45.16 | 1/47.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 4.4% | 2.1% |
| TERMINAL (d) | 0/39 (0%) | 0/31 (0%) | 0/36 (0%) | 0/40 (0%) |
| FIRST INCIDENCE | --- | --- | 447 | 572 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.394 | (e) | P=0.230 | P=0.501 |
| POLY 1.5 | P=0.386 | (e) | P=0.233 | P=0.501 |
| POLY 6 | P=0.405 | (e) | P=0.225 | P=0.502 |
| COCH-ARM / FISHERS | P=0.377 | (e) | P=0.247 | P=0.500 |
| MAX-ISO-POLY-3 | P=0.171 | (e) | P=0.076 | P=0.160 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|---|------------|------------|-----------|------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Lung | | | | |
| Infiltration Cellular Histiocyte | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 5/50 (10%) | 5/50 (10%) | 1/50 (2%) | 9/50 (18%) |
| POLY-3 RATE (b) | 5/46.68 | 5/43.43 | 1/44.33 | 9/46.73 |
| POLY-3 PERCENT (g) | 10.7% | 11.5% | 2.3% | 19.3% |
| TERMINAL (d) | 5/39 (13%) | 3/31 (10%) | 1/36 (3%) | 8/40 (20%) |
| FIRST INCIDENCE | 729 (T) | 677 | 729 (T) | 661 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.076 | P=0.584 | P=0.114N | P=0.193 |
| POLY 1.5 | P=0.073 | P=0.605 | P=0.109N | P=0.193 |
| POLY 6 | P=0.080 | P=0.554 | P=0.120N | P=0.193 |
| COCH-ARM / FISHERS | P=0.071 | P=0.630N | P=0.102N | P=0.194 |
| MAX-ISO-POLY-3 | P=0.064 | P=0.452 | P=0.055N | P=0.124 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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%) | 4/50 (8%) | 6/50 (12%) | 7/50 (14%) |
| POLY-3 RATE (b) | 4/46.68 | 4/43.16 | 6/44.66 | 7/46.64 |
| POLY-3 PERCENT (g) | 8.6% | 9.3% | 13.4% | 15% |
| TERMINAL (d) | 4/39 (10%) | 3/31 (10%) | 5/36 (14%) | 6/40 (15%) |
| FIRST INCIDENCE | 729 (T) | 727 | 640 | 687 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.205 | P=0.600 | P=0.342 | P=0.261 |
| POLY 1.5 | P=0.196 | P=0.619 | P=0.353 | P=0.260 |
| POLY 6 | P=0.217 | P=0.570 | P=0.328 | P=0.260 |
| COCH-ARM / FISHERS | P=0.187 | P=0.643N | P=0.370 | P=0.262 |
| MAX-ISO-POLY-3 | P=0.265 | P=0.454 | P=0.235 | P=0.169 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|-------------------------------------|-------------|-------------|-------------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Lung: Bronchiole Hyperplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 11/50 (22%) | 11/50 (22%) | 32/50 (64%) | 44/50 (88%) |
| POLY-3 RATE (b) | 11/48.44 | 11/44.77 | 32/46.27 | 44/49.62 |
| POLY-3 PERCENT (g) | 22.7% | 24.6% | 69.2% | 88.7% |
| TERMINAL (d) | 7/39 (18%) | 7/31 (23%) | 26/36 (72%) | 35/40 (88%) |
| FIRST INCIDENCE | 499 | 556 | 573 | 344 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P<0.001** | P=0.513 | P<0.001** | P<0.001** |
| POLY 1.5 | P<0.001** | P=0.548 | P<0.001** | P<0.001** |
| POLY 6 | P<0.001** | P=0.465 | P<0.001** | P<0.001** |
| COCH-ARM / FISHERS | P<0.001** | P=0.595N | P<0.001** | P<0.001** |
| MAX-ISO-POLY-3 | P<0.001** | P=0.418 | P<0.001** | P<0.001** |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Lung: Perivascular Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 1/50 (2%) | 1/50 (2%) | 1/50 (2%) |
| POLY-3 RATE (b) | 1/46.68 | 1/43.16 | 1/44.66 | 1/46.48 |
| POLY-3 PERCENT (g) | 2.1% | 2.3% | 2.2% | 2.2% |
| TERMINAL (d) | 1/39 (3%) | 1/31 (3%) | 0/36 (0%) | 1/40 (3%) |
| FIRST INCIDENCE | 729 (T) | 729 (T) | 640 | 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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Lymph Node, Mandibular Hyperplasia Lymphoid | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/31 (0%) | 2/36 (6%) | 1/34 (3%) | 0/33 (0%) |
| POLY-3 RATE (b) | 0/29.09 | 2/31.58 | 1/30.41 | 0/31.68 |
| POLY-3 PERCENT (g) | 0% | 6.3% | 3.3% | 0% |
| TERMINAL (d) | 0/25 (0%) | 0/22 (0%) | 1/27 (4%) | 0/29 (0%) |
| FIRST INCIDENCE | --- | 632 | 729 (T) | --- |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.376N | P=0.254 | P=0.509 | (e) |
| POLY 1.5 | P=0.379N | P=0.261 | P=0.513 | (e) |
| POLY 6 | P=0.372N | P=0.245 | P=0.505 | (e) |
| COCH-ARM / FISHERS | P=0.380N | P=0.285 | P=0.523 | (e) |
| MAX-ISO-POLY-3 | P=0.334N | P=0.084 | P=0.164 | (e) |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|---|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Lymph Node, Mediastinal Hyperplasia Lymphoid | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/39 (0%) | 0/39 (0%) | 0/32 (0%) | 0/35 (0%) |
| POLY-3 RATE (b) | 0/36.73 | 0/32.42 | 0/30.12 | 0/33.42 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/31 (0%) | 0/22 (0%) | 0/26 (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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|---|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Lymph Node, Mesenteric Angiectasis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/49 (0%) | 0/50 (0%) | 0/48 (0%) | 0/49 (0%) |
| POLY-3 RATE (b) | 0/45.68 | 0/43.16 | 0/43.42 | 0/46.37 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/38 (0%) | 0/31 (0%) | 0/36 (0%) | 0/40 (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 - 04
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
Time Report Requested: 14:13:47
First Dose M/F: 05/05/08 / 05/05/08
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
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) | 0/49 (0%) | 0/50 (0%) | 0/48 (0%) | 0/49 (0%) |
| POLY-3 RATE (b) | 0/45.68 | 0/43.16 | 0/43.42 | 0/46.37 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/38 (0%) | 0/31 (0%) | 0/36 (0%) | 0/40 (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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Lymph Node, Mesenteric Hemorrhage | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/49 (0%) | 1/50 (2%) | 1/48 (2%) | 0/49 (0%) |
| POLY-3 RATE (b) | 0/45.68 | 1/43.25 | 1/44.03 | 0/46.37 |
| POLY-3 PERCENT (g) | 0% | 2.3% | 2.3% | 0% |
| TERMINAL (d) | 0/38 (0%) | 0/31 (0%) | 0/36 (0%) | 0/40 (0%) |
| FIRST INCIDENCE | --- | 706 | 534 | --- |
| 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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 0/4 (0%) | 0/3 (0%) | 0/1 (0%) | 0/1 (0%) |
| POLY-3 RATE (b) | 0/3.41 | 0/2.39 | 0/0.68 | 0/0.92 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/1 (0%) | 0/1 (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 - 04
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
Time Report Requested: 14:13:47
First Dose M/F: 05/05/08 / 05/05/08
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|---|----------|----------|----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Lymph Node: Renal Hyperplasia Lymphoid | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/4 (0%) | 0/3 (0%) | 0/1 (0%) | 0/1 (0%) |
| POLY-3 RATE (b) | 0/3.41 | 0/2.39 | 0/0.68 | 0/0.92 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/1 (0%) | 0/1 (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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|----------------------------------|----------|----------|----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Mammary Gland Hyperplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/1 (0%) | 0/0 (0%) | 0/1 (0%) | 0/0 (0%) |
| POLY-3 RATE (b) | 0/1.00 | 0/0.00 | 0/0.88 | 0/0.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/1 (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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|------------------------------------|-----------|-----------|------------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Mesentery: Fat Necrosis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/4 (25%) | 2/5 (40%) | 2/3 (67%) | 3/4 (75%) |
| POLY-3 RATE (b) | 1/3.84 | 2/4.19 | 2/2.68 | 3/4.00 |
| POLY-3 PERCENT (g) | 26% | 47.7% | 74.7% | 75% |
| TERMINAL (d) | 1/2 (50%) | 2/3 (67%) | 1/1 (100%) | 2/3 (67%) |
| FIRST INCIDENCE | 729 (T) | 729 (T) | 640 | 662 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.212 | P=0.535 | P=0.338 | P=0.255 |
| POLY 1.5 | P=0.198 | P=0.558 | P=0.357 | P=0.247 |
| POLY 6 | P=0.241 | P=0.501 | P=0.307 | P=0.271 |
| COCH-ARM / FISHERS | P=0.170 | P=0.595 | P=0.371 | P=0.243 |
| MAX-ISO-POLY-3 | P=0.137 | P=0.281 | P=0.138 | P=0.089 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|-----------------------------|------------|------------|-----------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Nose | | | | |
| Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 6/50 (12%) | 8/50 (16%) | 4/50 (8%) | 12/50 (24%) |
| POLY-3 RATE (b) | 6/46.70 | 8/45.68 | 4/44.79 | 12/46.91 |
| POLY-3 PERCENT (g) | 12.9% | 17.5% | 8.9% | 25.6% |
| TERMINAL (d) | 5/39 (13%) | 3/31 (10%) | 2/36 (6%) | 9/40 (23%) |
| FIRST INCIDENCE | 725 | 439 | 636 | 661 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.058 | P=0.369 | P=0.396N | P=0.095 |
| POLY 1.5 | P=0.056 | P=0.379 | P=0.386N | P=0.095 |
| POLY 6 | P=0.061 | P=0.353 | P=0.408N | P=0.096 |
| COCH-ARM / FISHERS | P=0.056 | P=0.387 | P=0.370N | P=0.096 |
| MAX-ISO-POLY-3 | P=0.073 | P=0.269 | P=0.280N | P=0.058 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Nose | | | | |
| Necrosis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 2/50 (4%) | 2/50 (4%) | 0/50 (0%) | 1/50 (2%) |
| POLY-3 RATE (b) | 2/46.68 | 2/44.40 | 0/44.33 | 1/46.57 |
| POLY-3 PERCENT (g) | 4.3% | 4.5% | 0% | 2.2% |
| TERMINAL (d) | 2/39 (5%) | 0/31 (0%) | 0/36 (0%) | 0/40 (0%) |
| FIRST INCIDENCE | 729 (T) | 439 | --- | 706 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.398N | P=0.676 | P=0.249N | P=0.501N |
| POLY 1.5 | P=0.401N | P=0.684 | P=0.244N | P=0.501N |
| POLY 6 | P=0.394N | P=0.661 | P=0.255N | P=0.501N |
| COCH-ARM / FISHERS | P=0.404N | P=0.691N | P=0.247N | P=0.500N |
| MAX-ISO-POLY-3 | P=0.266N | P=0.479 | P=0.087N | P=0.282N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 4/50 (8%) | 31/50 (62%) | 43/50 (86%) | 49/50 (98%) |
| POLY-3 RATE (b) | 4/46.68 | 31/47.08 | 43/49.94 | 49/50.00 |
| POLY-3 PERCENT (g) | 8.6% | 65.9% | 86.1% | 98% |
| TERMINAL (d) | 4/39 (10%) | 18/31 (58%) | 30/36 (83%) | 39/40 (98%) |
| FIRST INCIDENCE | 729 (T) | 556 | 438 | 344 |
| 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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|---|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Nose: Olfactory Epithelium Atrophy | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 0/50 (0%) | 0/50 (0%) | 4/50 (8%) |
| POLY-3 RATE (b) | 1/46.68 | 0/43.16 | 0/44.33 | 4/46.65 |
| POLY-3 PERCENT (g) | 2.1% | 0% | 0% | 8.6% |
| TERMINAL (d) | 1/39 (3%) | 0/31 (0%) | 0/36 (0%) | 2/40 (5%) |
| FIRST INCIDENCE | 729 (T) | --- | --- | 706 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.014* | P=0.516N | P=0.510N | P=0.179 |
| POLY 1.5 | P=0.014* | P=0.509N | P=0.506N | P=0.178 |
| POLY 6 | P=0.015* | P=0.526N | P=0.516N | P=0.179 |
| COCH-ARM / FISHERS | P=0.014* | P=0.500N | P=0.500N | P=0.181 |
| MAX-ISO-POLY-3 | P=0.014* | P=0.178N | P=0.172N | P=0.084 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--|------------|-------------|-------------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Nose: Olfactory Epithelium Metaplasia Respiratory | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 7/50 (14%) | 15/50 (30%) | 25/50 (50%) | 37/50 (74%) |
| POLY-3 RATE (b) | 7/46.82 | 15/44.74 | 25/47.83 | 37/49.62 |
| POLY-3 PERCENT (g) | 15% | 33.5% | 52.3% | 74.6% |
| TERMINAL (d) | 6/39 (15%) | 11/31 (36%) | 16/36 (44%) | 28/40 (70%) |
| FIRST INCIDENCE | 694 | 591 | 447 | 344 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P<0.001** | P=0.031* | P<0.001** | P<0.001** |
| POLY 1.5 | P<0.001** | P=0.036* | 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=0.045* | P<0.001** | P<0.001** |
| MAX-ISO-POLY-3 | P<0.001** | P=0.019* | P<0.001** | P<0.001** |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 7/50 (14%) | 36/50 (72%) | 50/50 (100%) | 50/50 (100%) |
| POLY-3 RATE (b) | 7/46.70 | 36/47.33 | 50/50.00 | 50/50.00 |
| POLY-3 PERCENT (g) | 15% | 76.1% | 100% | 100% |
| TERMINAL (d) | 6/39 (15%) | 22/31 (71%) | 36/36 (100%) | 40/40 (100%) |
| FIRST INCIDENCE | 725 | 556 | 438 | 344 |
| 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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|---|-------------|-------------|-------------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Nose: Respiratory Epithelium Hyperplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 38/50 (76%) | 44/50 (88%) | 36/50 (72%) | 41/50 (82%) |
| POLY-3 RATE (b) | 38/49.27 | 44/50.00 | 36/49.11 | 41/49.54 |
| POLY-3 PERCENT (g) | 77.1% | 88% | 73.3% | 82.8% |
| TERMINAL (d) | 29/39 (74%) | 25/31 (81%) | 26/36 (72%) | 33/40 (83%) |
| FIRST INCIDENCE | 499 | 439 | 438 | 344 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.470 | P=0.120 | P=0.418N | P=0.326 |
| POLY 1.5 | P=0.471 | P=0.109 | P=0.412N | P=0.322 |
| POLY 6 | P=0.464 | P=0.135 | P=0.437N | P=0.328 |
| COCH-ARM / FISHERS | P=0.469 | P=0.096 | P=0.410N | P=0.312 |
| MAX-ISO-POLY-3 | P=0.387 | P=0.076 | P=0.329N | P=0.242 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Nose: Respiratory Epithelium Metaplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 3/50 (6%) | 0/50 (0%) | 1/50 (2%) |
| POLY-3 RATE (b) | 0/46.68 | 3/43.94 | 0/44.33 | 1/46.57 |
| POLY-3 PERCENT (g) | 0% | 6.8% | 0% | 2.2% |
| TERMINAL (d) | 0/39 (0%) | 2/31 (7%) | 0/36 (0%) | 0/40 (0%) |
| FIRST INCIDENCE | --- | 439 | --- | 706 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.628N | P=0.108 | (e) | P=0.500 |
| POLY 1.5 | P=0.625N | P=0.113 | (e) | P=0.499 |
| POLY 6 | P=0.633N | P=0.100 | (e) | P=0.499 |
| COCH-ARM / FISHERS | P=0.621N | P=0.121 | (e) | P=0.500 |
| MAX-ISO-POLY-3 | P=0.260 | P=0.038* | (e) | P=0.159 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|---------------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Pancreas: Acinus Atrophy | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 0/50 (0%) | 0/50 (0%) | 0/50 (0%) |
| POLY-3 RATE (b) | 0/46.68 | 0/43.16 | 0/44.33 | 0/46.48 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/39 (0%) | 0/31 (0%) | 0/36 (0%) | 0/40 (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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 105 WEEKS

| DOSE | Males | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Pituitary Gland | | | | |
| Angiectasis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 0/50 (0%) | 0/50 (0%) | 1/48 (2%) |
| POLY-3 RATE (b) | 0/46.68 | 0/43.16 | 0/44.33 | 1/44.48 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 2.3% |
| TERMINAL (d) | 0/39 (0%) | 0/31 (0%) | 0/36 (0%) | 1/38 (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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 5/50 (10%) | 8/50 (16%) | 7/50 (14%) | 2/48 (4%) |
| POLY-3 RATE (b) | 5/46.68 | 8/43.16 | 7/44.39 | 2/44.48 |
| POLY-3 PERCENT (g) | 10.7% | 18.5% | 15.8% | 4.5% |
| TERMINAL (d) | 5/39 (13%) | 8/31 (26%) | 6/36 (17%) | 2/38 (5%) |
| FIRST INCIDENCE | 729 (T) | 729 (T) | 715 | 729 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.081N | P=0.226 | P=0.344 | P=0.236N |
| POLY 1.5 | P=0.085N | P=0.248 | P=0.358 | P=0.236N |
| POLY 6 | P=0.078N | P=0.195 | P=0.326 | P=0.238N |
| COCH-ARM / FISHERS | P=0.089N | P=0.277 | P=0.380 | P=0.235N |
| MAX-ISO-POLY-3 | P=0.103N | P=0.155 | P=0.245 | P=0.136N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--------------------------------|------------|------------|------------|------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Preputial Gland Ectasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 8/50 (16%) | 4/49 (8%) | 7/48 (15%) | 7/49 (14%) |
| POLY-3 RATE (b) | 8/46.70 | 4/42.16 | 7/43.59 | 7/46.20 |
| POLY-3 PERCENT (g) | 17.1% | 9.5% | 16.1% | 15.2% |
| TERMINAL (d) | 7/39 (18%) | 3/30 (10%) | 5/35 (14%) | 5/39 (13%) |
| FIRST INCIDENCE | 725 | 727 | 640 | 590 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.527 | P=0.230N | P=0.558N | P=0.509N |
| POLY 1.5 | P=0.504 | P=0.210N | P=0.549N | P=0.514N |
| POLY 6 | P=0.557 | P=0.261N | P=0.568N | P=0.504N |
| COCH-ARM / FISHERS | P=0.478 | P=0.188N | P=0.535N | P=0.517N |
| MAX-ISO-POLY-3 | P=0.502N | P=0.157N | P=0.446N | P=0.396N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 9/50 (18%) | 4/49 (8%) | 11/48 (23%) | 4/49 (8%) |
| POLY-3 RATE (b) | 9/47.36 | 4/42.16 | 11/43.97 | 4/45.48 |
| POLY-3 PERCENT (g) | 19% | 9.5% | 25% | 8.8% |
| TERMINAL (d) | 8/39 (21%) | 4/30 (13%) | 9/35 (26%) | 4/39 (10%) |
| FIRST INCIDENCE | 499 | 729 (T) | 438 | 729 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.166N | P=0.165N | P=0.330 | P=0.131N |
| POLY 1.5 | P=0.177N | P=0.146N | P=0.344 | P=0.129N |
| POLY 6 | P=0.152N | P=0.195N | P=0.312 | P=0.134N |
| COCH-ARM / FISHERS | P=0.190N | P=0.125N | P=0.362 | P=0.125N |
| MAX-ISO-POLY-3 | P=0.139N | P=0.112N | P=0.250 | P=0.081N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|---|----------|-----------|----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Skeletal Muscle Infiltration Cellular Lymphocyte | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/1 (0%) | 1/3 (33%) | 0/2 (0%) | 0/3 (0%) |
| POLY-3 RATE (b) | 0/1.00 | 1/2.10 | 0/1.39 | 0/2.92 |
| POLY-3 PERCENT (g) | 0% | 47.7% | 0% | 0% |
| TERMINAL (d) | 0/1 (0%) | 0/0 (0%) | 0/1 (0%) | 0/2 (0%) |
| FIRST INCIDENCE | --- | 713 | --- | --- |
| 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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|-----------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Skin | | | | |
| Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 2/50 (4%) | 4/49 (8%) | 1/50 (2%) | 3/50 (6%) |
| POLY-3 RATE (b) | 2/46.70 | 4/42.85 | 1/44.33 | 3/46.48 |
| POLY-3 PERCENT (g) | 4.3% | 9.3% | 2.3% | 6.5% |
| TERMINAL (d) | 1/39 (3%) | 2/30 (7%) | 1/36 (3%) | 3/40 (8%) |
| FIRST INCIDENCE | 725 | 598 | 729 (T) | 729 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.562 | P=0.298 | P=0.518N | P=0.498 |
| POLY 1.5 | P=0.559 | P=0.312 | P=0.511N | P=0.498 |
| POLY 6 | P=0.564 | P=0.280 | P=0.528N | P=0.496 |
| COCH-ARM / FISHERS | P=0.556 | P=0.329 | P=0.500N | P=0.500 |
| MAX-ISO-POLY-3 | P=0.499N | P=0.180 | P=0.300N | P=0.322 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Skin | | | | |
| Ulcer | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 4/49 (8%) | 2/50 (4%) | 0/50 (0%) |
| POLY-3 RATE (b) | 1/46.76 | 4/43.77 | 2/44.70 | 0/46.48 |
| POLY-3 PERCENT (g) | 2.1% | 9.1% | 4.5% | 0% |
| TERMINAL (d) | 0/39 (0%) | 0/30 (0%) | 0/36 (0%) | 0/40 (0%) |
| FIRST INCIDENCE | 709 | 565 | 663 | --- |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.136N | P=0.159 | P=0.484 | P=0.501N |
| POLY 1.5 | P=0.136N | P=0.165 | P=0.490 | P=0.501N |
| POLY 6 | P=0.137N | P=0.150 | P=0.477 | P=0.502N |
| COCH-ARM / FISHERS | P=0.136N | P=0.175 | P=0.500 | P=0.500N |
| MAX-ISO-POLY-3 | P=0.129N | P=0.078 | P=0.272 | P=0.160N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 1/50 (2%) | 1/50 (2%) | 3/49 (6%) | 1/49 (2%) |
| POLY-3 RATE (b) | 1/47.15 | 1/43.16 | 3/44.21 | 1/46.03 |
| POLY-3 PERCENT (g) | 2.1% | 2.3% | 6.8% | 2.2% |
| TERMINAL (d) | 0/39 (0%) | 1/31 (3%) | 1/36 (3%) | 0/40 (0%) |
| FIRST INCIDENCE | 592 | 729 (T) | 640 | 709 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.600N | P=0.741 | P=0.283 | P=0.755 |
| POLY 1.5 | P=0.607N | P=0.750 | P=0.289 | P=0.755 |
| POLY 6 | P=0.591N | P=0.727 | P=0.276 | P=0.755 |
| COCH-ARM / FISHERS | P=0.615N | P=0.753N | P=0.301 | P=0.747 |
| MAX-ISO-POLY-3 | P=0.429 | P=0.475 | P=0.145 | P=0.492 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Spleen: Lymphoid Follicle Hyperplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 3/50 (6%) | 2/50 (4%) | 1/49 (2%) | 1/49 (2%) |
| POLY-3 RATE (b) | 3/46.70 | 2/43.16 | 1/43.64 | 1/45.95 |
| POLY-3 PERCENT (g) | 6.4% | 4.6% | 2.3% | 2.2% |
| TERMINAL (d) | 2/39 (5%) | 2/31 (7%) | 1/36 (3%) | 1/40 (3%) |
| FIRST INCIDENCE | 725 | 729 (T) | 729 (T) | 729 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.268N | P=0.536N | P=0.330N | P=0.311N |
| POLY 1.5 | P=0.275N | P=0.520N | P=0.323N | P=0.312N |
| POLY 6 | P=0.259N | P=0.560N | P=0.339N | P=0.310N |
| COCH-ARM / FISHERS | P=0.282N | P=0.500N | P=0.316N | P=0.316N |
| MAX-ISO-POLY-3 | P=0.234N | P=0.361N | P=0.178N | P=0.159N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|---|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Stomach, Forestomach Hyperplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 2/50 (4%) | 2/50 (4%) | 1/50 (2%) | 3/50 (6%) |
| POLY-3 RATE (b) | 2/46.68 | 2/43.67 | 1/44.33 | 3/46.56 |
| POLY-3 PERCENT (g) | 4.3% | 4.6% | 2.3% | 6.4% |
| TERMINAL (d) | 2/39 (5%) | 0/31 (0%) | 1/36 (3%) | 2/40 (5%) |
| FIRST INCIDENCE | 729 (T) | 596 | 729 (T) | 709 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.386 | P=0.670 | P=0.518N | P=0.499 |
| POLY 1.5 | P=0.381 | P=0.680 | P=0.511N | P=0.499 |
| POLY 6 | P=0.393 | P=0.654 | P=0.527N | P=0.498 |
| COCH-ARM / FISHERS | P=0.374 | P=0.691N | P=0.500N | P=0.500 |
| MAX-ISO-POLY-3 | P=0.418 | P=0.473 | P=0.300N | P=0.323 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Stomach, Forestomach Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 2/50 (4%) | 1/50 (2%) | 0/50 (0%) |
| POLY-3 RATE (b) | 1/46.68 | 2/43.63 | 1/44.33 | 0/46.48 |
| POLY-3 PERCENT (g) | 2.1% | 4.6% | 2.3% | 0% |
| TERMINAL (d) | 1/39 (3%) | 1/31 (3%) | 1/36 (3%) | 0/40 (0%) |
| FIRST INCIDENCE | 729 (T) | 590 | 729 (T) | --- |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.236N | P=0.476 | P=0.749 | P=0.501N |
| POLY 1.5 | P=0.237N | P=0.487 | P=0.754 | P=0.501N |
| POLY 6 | P=0.235N | P=0.461 | P=0.743 | P=0.501N |
| COCH-ARM / FISHERS | P=0.237N | P=0.500 | P=0.753N | P=0.500N |
| MAX-ISO-POLY-3 | P=0.221N | P=0.268 | P=0.485 | P=0.160N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Stomach, Glandular Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 0/50 (0%) | 0/50 (0%) | 2/50 (4%) |
| POLY-3 RATE (b) | 1/46.68 | 0/43.16 | 0/44.33 | 2/46.48 |
| POLY-3 PERCENT (g) | 2.1% | 0% | 0% | 4.3% |
| TERMINAL (d) | 1/39 (3%) | 0/31 (0%) | 0/36 (0%) | 2/40 (5%) |
| FIRST INCIDENCE | 729 (T) | --- | --- | 729 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.196 | P=0.516N | P=0.510N | P=0.498 |
| POLY 1.5 | P=0.191 | P=0.509N | P=0.506N | P=0.499 |
| POLY 6 | P=0.202 | P=0.526N | P=0.516N | P=0.497 |
| COCH-ARM / FISHERS | P=0.186 | P=0.500N | P=0.500N | P=0.500 |
| MAX-ISO-POLY-3 | P=0.140 | P=0.178N | P=0.172N | P=0.280 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Stomach, Glandular: Glands Mineralization | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 0/50 (0%) | 2/50 (4%) | 1/50 (2%) |
| POLY-3 RATE (b) | 0/46.68 | 0/43.16 | 2/44.33 | 1/46.48 |
| POLY-3 PERCENT (g) | 0% | 0% | 4.5% | 2.2% |
| TERMINAL (d) | 0/39 (0%) | 0/31 (0%) | 2/36 (6%) | 1/40 (3%) |
| FIRST INCIDENCE | --- | --- | 729 (T) | 729 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.389 | (e) | P=0.226 | P=0.499 |
| POLY 1.5 | P=0.383 | (e) | P=0.230 | P=0.499 |
| POLY 6 | P=0.396 | (e) | P=0.220 | P=0.499 |
| COCH-ARM / FISHERS | P=0.377 | (e) | P=0.247 | P=0.500 |
| MAX-ISO-POLY-3 | P=0.167 | (e) | P=0.076 | P=0.159 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Testes: Germinal Epithelium Atrophy | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 4/50 (8%) | 0/50 (0%) | 3/50 (6%) |
| POLY-3 RATE (b) | 1/46.82 | 4/43.78 | 0/44.33 | 3/46.56 |
| POLY-3 PERCENT (g) | 2.1% | 9.1% | 0% | 6.4% |
| TERMINAL (d) | 0/39 (0%) | 1/31 (3%) | 0/36 (0%) | 2/40 (5%) |
| FIRST INCIDENCE | 694 | 565 | --- | 709 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.412 | P=0.159 | P=0.511N | P=0.303 |
| POLY 1.5 | P=0.412 | P=0.168 | P=0.506N | P=0.304 |
| POLY 6 | P=0.411 | P=0.146 | P=0.517N | P=0.302 |
| COCH-ARM / FISHERS | P=0.413 | P=0.181 | P=0.500N | P=0.309 |
| MAX-ISO-POLY-3 | P=0.247 | P=0.079 | P=0.172N | P=0.153 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Thymus Atrophy | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/41 (0%) | 0/38 (0%) | 1/39 (3%) | 1/41 (2%) |
| POLY-3 RATE (b) | 0/38.82 | 0/33.78 | 1/36.10 | 1/38.66 |
| POLY-3 PERCENT (g) | 0% | 0% | 2.8% | 2.6% |
| TERMINAL (d) | 0/32 (0%) | 0/25 (0%) | 0/30 (0%) | 0/35 (0%) |
| FIRST INCIDENCE | --- | --- | 447 | 623 |
| 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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|---|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Thyroid Gland Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 0/50 (0%) | 1/49 (2%) | 0/50 (0%) |
| POLY-3 RATE (b) | 0/46.68 | 0/43.16 | 1/43.33 | 0/46.48 |
| POLY-3 PERCENT (g) | 0% | 0% | 2.3% | 0% |
| TERMINAL (d) | 0/39 (0%) | 0/31 (0%) | 1/35 (3%) | 0/40 (0%) |
| 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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 0/50 (0%) | 0/50 (0%) | 1/49 (2%) | 1/50 (2%) |
| POLY-3 RATE (b) | 0/46.68 | 0/43.16 | 1/43.33 | 1/46.48 |
| POLY-3 PERCENT (g) | 0% | 0% | 2.3% | 2.2% |
| TERMINAL (d) | 0/39 (0%) | 0/31 (0%) | 1/35 (3%) | 1/40 (3%) |
| 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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|--------------------------|-------------|-------------|-------------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Tooth Dysplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 43/50 (86%) | 35/47 (74%) | 41/49 (84%) | 40/50 (80%) |
| POLY-3 RATE (b) | 43/48.14 | 35/43.58 | 41/46.58 | 40/47.44 |
| POLY-3 PERCENT (g) | 89.3% | 80.3% | 88% | 84.3% |
| TERMINAL (d) | 37/39 (95%) | 26/30 (87%) | 33/36 (92%) | 35/40 (88%) |
| FIRST INCIDENCE | 541 | 590 | 447 | 623 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.462N | P=0.161N | P=0.553N | P=0.327N |
| POLY 1.5 | P=0.477N | P=0.137N | P=0.526N | P=0.318N |
| POLY 6 | P=0.438N | P=0.214N | P=0.585N | P=0.342N |
| COCH-ARM / FISHERS | P=0.475N | P=0.120N | P=0.483N | P=0.298N |
| MAX-ISO-POLY-3 | P=0.369N | P=0.102N | P=0.414N | P=0.223N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Males | | | |
|-----------------------------------|-----------|-----------|------------|------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Tooth Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 3/50 (6%) | 1/47 (2%) | 6/49 (12%) | 5/50 (10%) |
| POLY-3 RATE (b) | 3/46.68 | 1/41.29 | 6/43.85 | 5/46.56 |
| POLY-3 PERCENT (g) | 6.4% | 2.4% | 13.7% | 10.7% |
| TERMINAL (d) | 3/39 (8%) | 1/30 (3%) | 6/36 (17%) | 4/40 (10%) |
| FIRST INCIDENCE | 729 (T) | 729 (T) | 729 (T) | 709 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.209 | P=0.350N | P=0.212 | P=0.355 |
| POLY 1.5 | P=0.202 | P=0.340N | P=0.220 | P=0.355 |
| POLY 6 | P=0.220 | P=0.367N | P=0.201 | P=0.354 |
| COCH-ARM / FISHERS | P=0.195 | P=0.332N | P=0.233 | P=0.357 |
| MAX-ISO-POLY-3 | P=0.145 | P=0.196N | P=0.131 | P=0.230 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|---------------------------------------|-------------|------------|-------------|------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Adrenal Cortex Hyperplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 10/49 (20%) | 5/50 (10%) | 10/50 (20%) | 6/50 (12%) |
| POLY-3 RATE (b) | 10/44.40 | 5/45.68 | 10/45.92 | 6/44.06 |
| POLY-3 PERCENT (g) | 22.5% | 10.9% | 21.8% | 13.6% |
| TERMINAL (d) | 10/39 (26%) | 5/37 (14%) | 10/37 (27%) | 5/33 (15%) |
| FIRST INCIDENCE | 731 (T) | 731 (T) | 731 (T) | 596 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.330N | P=0.115N | P=0.567N | P=0.208N |
| POLY 1.5 | P=0.319N | P=0.114N | P=0.563N | P=0.200N |
| POLY 6 | P=0.342N | P=0.122N | P=0.578N | P=0.223N |
| COCH-ARM / FISHERS | P=0.302N | P=0.122N | P=0.579N | P=0.194N |
| MAX-ISO-POLY-3 | P=0.222N | P=0.071N | P=0.466N | P=0.140N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|----------------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Adrenal Cortex | | | | |
| Vacuolization Cytoplasmic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 2/49 (4%) | 2/50 (4%) | 0/50 (0%) | 2/50 (4%) |
| POLY-3 RATE (b) | 2/44.40 | 2/46.03 | 0/45.92 | 2/43.61 |
| POLY-3 PERCENT (g) | 4.5% | 4.4% | 0% | 4.6% |
| TERMINAL (d) | 2/39 (5%) | 1/37 (3%) | 0/37 (0%) | 2/33 (6%) |
| FIRST INCIDENCE | 731 (T) | 635 | --- | 731 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.597 | P=0.681N | P=0.230N | P=0.688 |
| POLY 1.5 | P=0.602 | P=0.680N | P=0.229N | P=0.693N |
| POLY 6 | P=0.589 | P=0.686N | P=0.232N | P=0.676 |
| COCH-ARM / FISHERS | P=0.611 | P=0.684N | P=0.242N | P=0.684N |
| MAX-ISO-POLY-3 | P=0.453N | P=0.485N | P=0.075N | P=0.492 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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%) | 1/50 (2%) | 2/49 (4%) | 4/50 (8%) |
| POLY-3 RATE (b) | 2/44.40 | 1/45.74 | 2/45.11 | 4/43.61 |
| POLY-3 PERCENT (g) | 4.5% | 2.2% | 4.4% | 9.2% |
| TERMINAL (d) | 2/39 (5%) | 0/37 (0%) | 2/37 (5%) | 4/33 (12%) |
| FIRST INCIDENCE | 731 (T) | 717 | 731 (T) | 731 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.138 | P=0.490N | P=0.688N | P=0.329 |
| POLY 1.5 | P=0.143 | P=0.488N | P=0.687N | P=0.338 |
| POLY 6 | P=0.132 | P=0.495N | P=0.691N | P=0.314 |
| COCH-ARM / FISHERS | P=0.151 | P=0.492N | P=0.691N | P=0.349 |
| MAX-ISO-POLY-3 | P=0.179 | P=0.273N | P=0.493N | P=0.197 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|-----------------------------|-------------|-------------|-------------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Bone | | | | |
| Fibro-osseous Lesion | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 23/50 (46%) | 25/50 (50%) | 27/50 (54%) | 23/50 (46%) |
| POLY-3 RATE (b) | 23/46.68 | 25/47.92 | 27/47.88 | 23/45.40 |
| POLY-3 PERCENT (g) | 49.3% | 52.2% | 56.4% | 50.7% |
| TERMINAL (d) | 18/39 (46%) | 20/37 (54%) | 19/37 (51%) | 17/33 (52%) |
| FIRST INCIDENCE | 549 | 508 | 502 | 433 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.543N | P=0.470 | P=0.312 | P=0.530 |
| POLY 1.5 | P=0.503N | P=0.468 | P=0.310 | P=0.560 |
| POLY 6 | P=0.510 | P=0.451 | P=0.307 | P=0.483 |
| COCH-ARM / FISHERS | P=0.451N | P=0.421 | P=0.274 | P=0.579N |
| MAX-ISO-POLY-3 | P=0.541 | P=0.388 | P=0.246 | P=0.446 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|-----------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Bone: Cranium | | | | |
| Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 0/50 (0%) | 2/50 (4%) | 1/50 (2%) |
| POLY-3 RATE (b) | 1/45.30 | 0/45.68 | 2/45.92 | 1/43.61 |
| POLY-3 PERCENT (g) | 2.2% | 0% | 4.4% | 2.3% |
| TERMINAL (d) | 1/39 (3%) | 0/37 (0%) | 2/37 (5%) | 1/33 (3%) |
| FIRST INCIDENCE | 731 (T) | --- | 731 (T) | 731 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.553 | P=0.498N | P=0.505 | P=0.752 |
| POLY 1.5 | P=0.560 | P=0.497N | P=0.506 | P=0.757 |
| POLY 6 | P=0.544 | P=0.502N | P=0.501 | P=0.746 |
| COCH-ARM / FISHERS | P=0.572 | P=0.500N | P=0.500 | P=0.753N |
| MAX-ISO-POLY-3 | P=0.393 | P=0.159N | P=0.286 | P=0.489 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Brain Compression | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 3/50 (6%) | 1/50 (2%) | 2/50 (4%) | 3/50 (6%) |
| POLY-3 RATE (b) | 3/45.30 | 1/45.68 | 2/46.11 | 3/44.28 |
| POLY-3 PERCENT (g) | 6.6% | 2.2% | 4.3% | 6.8% |
| TERMINAL (d) | 3/39 (8%) | 1/37 (3%) | 1/37 (3%) | 0/33 (0%) |
| FIRST INCIDENCE | 731 (T) | 731 (T) | 681 | 634 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.415 | P=0.302N | P=0.492N | P=0.652 |
| POLY 1.5 | P=0.420 | P=0.300N | P=0.492N | P=0.657 |
| POLY 6 | P=0.412 | P=0.308N | P=0.495N | P=0.644 |
| COCH-ARM / FISHERS | P=0.429 | P=0.309N | P=0.500N | P=0.661N |
| MAX-ISO-POLY-3 | P=0.488 | P=0.153N | P=0.318N | P=0.488 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Eye Atrophy | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 0/50 (0%) | 2/50 (4%) | 0/50 (0%) |
| POLY-3 RATE (b) | 0/45.30 | 0/45.68 | 2/46.23 | 0/43.61 |
| POLY-3 PERCENT (g) | 0% | 0% | 4.3% | 0% |
| TERMINAL (d) | 0/39 (0%) | 0/37 (0%) | 1/37 (3%) | 0/33 (0%) |
| FIRST INCIDENCE | --- | --- | 644 | --- |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.694N | (e) | P=0.242 | (e) |
| POLY 1.5 | P=0.688N | (e) | P=0.242 | (e) |
| POLY 6 | P=0.701N | (e) | P=0.241 | (e) |
| COCH-ARM / FISHERS | P=0.679N | (e) | P=0.247 | (e) |
| MAX-ISO-POLY-3 | P=0.265 | (e) | P=0.080 | (e) |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|-----------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Eye: Cornea | | | | |
| Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 1/50 (2%) | 0/50 (0%) | 1/50 (2%) |
| POLY-3 RATE (b) | 0/45.30 | 1/45.68 | 0/45.92 | 1/43.61 |
| POLY-3 PERCENT (g) | 0% | 2.2% | 0% | 2.3% |
| TERMINAL (d) | 0/39 (0%) | 1/37 (3%) | 0/37 (0%) | 1/33 (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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|----------------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Eye: Cornea | | | | |
| Vacuolization Cytoplasmic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 0/50 (0%) | 0/50 (0%) | 0/50 (0%) |
| POLY-3 RATE (b) | 0/45.30 | 0/45.68 | 0/45.92 | 0/43.61 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/39 (0%) | 0/37 (0%) | 0/37 (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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|-------------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Eye: Lens Degeneration | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 2/50 (4%) | 0/50 (0%) | 2/50 (4%) | 1/50 (2%) |
| POLY-3 RATE (b) | 2/45.40 | 0/45.68 | 2/46.38 | 1/44.12 |
| POLY-3 PERCENT (g) | 4.4% | 0% | 4.3% | 2.3% |
| TERMINAL (d) | 1/39 (3%) | 0/37 (0%) | 1/37 (3%) | 0/33 (0%) |
| FIRST INCIDENCE | 705 | --- | 595 | 574 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.605N | P=0.236N | P=0.686N | P=0.510N |
| POLY 1.5 | P=0.602N | P=0.234N | P=0.686N | P=0.504N |
| POLY 6 | P=0.609N | P=0.240N | P=0.688N | P=0.519N |
| COCH-ARM / FISHERS | P=0.594N | P=0.247N | P=0.691N | P=0.500N |
| MAX-ISO-POLY-3 | P=0.431N | P=0.076N | P=0.491N | P=0.292N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--|-----------|-----------|------------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Harderian Gland Hyperplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 2/50 (4%) | 1/50 (2%) | 6/50 (12%) | 0/50 (0%) |
| POLY-3 RATE (b) | 2/45.30 | 1/45.74 | 6/46.22 | 0/43.61 |
| POLY-3 PERCENT (g) | 4.4% | 2.2% | 13% | 0% |
| TERMINAL (d) | 2/39 (5%) | 0/37 (0%) | 4/37 (11%) | 0/33 (0%) |
| FIRST INCIDENCE | 731 (T) | 717 | 677 | --- |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.240N | P=0.497N | P=0.139 | P=0.246N |
| POLY 1.5 | P=0.230N | P=0.495N | P=0.140 | P=0.241N |
| POLY 6 | P=0.252N | P=0.502N | P=0.138 | P=0.252N |
| COCH-ARM / FISHERS | P=0.221N | P=0.500N | P=0.134 | P=0.247N |
| MAX-ISO-POLY-3 | P=0.129N | P=0.279N | P=0.075 | P=0.084N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|-----------|-----------|------------|------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Heart | | | | |
| Cardiomyopathy | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 3/50 (6%) | 8/50 (16%) | 5/50 (10%) |
| POLY-3 RATE (b) | 1/45.50 | 3/45.89 | 8/46.53 | 5/43.61 |
| POLY-3 PERCENT (g) | 2.2% | 6.5% | 17.2% | 11.5% |
| TERMINAL (d) | 0/39 (0%) | 2/37 (5%) | 6/37 (16%) | 5/33 (15%) |
| FIRST INCIDENCE | 677 | 677 | 576 | 731 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.148 | P=0.308 | P=0.017* | P=0.092 |
| POLY 1.5 | P=0.160 | P=0.311 | P=0.017* | P=0.097 |
| POLY 6 | P=0.133 | P=0.302 | P=0.017* | P=0.084 |
| COCH-ARM / FISHERS | P=0.178 | P=0.309 | P=0.015* | P=0.102 |
| MAX-ISO-POLY-3 | P=0.042* | P=0.157 | P=0.007** | P=0.042* |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|-----------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Heart Thrombosis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 1/50 (2%) | 0/50 (0%) | 0/50 (0%) |
| POLY-3 RATE (b) | 0/45.30 | 1/46.13 | 0/45.92 | 0/43.61 |
| POLY-3 PERCENT (g) | 0% | 2.2% | 0% | 0% |
| TERMINAL (d) | 0/39 (0%) | 0/37 (0%) | 0/37 (0%) | 0/33 (0%) |
| FIRST INCIDENCE | --- | 599 | --- | --- |
| 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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Intestine Small, Ileum Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/49 (0%) | 0/50 (0%) | 1/49 (2%) | 0/49 (0%) |
| POLY-3 RATE (b) | 0/45.28 | 0/45.68 | 1/45.38 | 0/43.40 |
| POLY-3 PERCENT (g) | 0% | 0% | 2.2% | 0% |
| TERMINAL (d) | 0/39 (0%) | 0/37 (0%) | 1/37 (3%) | 0/33 (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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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%) | 0/50 (0%) | 0/50 (0%) | 0/50 (0%) |
| POLY-3 RATE (b) | 0/45.30 | 0/45.68 | 0/45.92 | 0/43.61 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/39 (0%) | 0/37 (0%) | 0/37 (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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|---------------------------|-----------|-----------|------------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Kidney Infarct | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 4/50 (8%) | 4/50 (8%) | 1/50 (2%) |
| POLY-3 RATE (b) | 1/45.30 | 4/45.81 | 4/45.92 | 1/43.61 |
| POLY-3 PERCENT (g) | 2.2% | 8.7% | 8.7% | 2.3% |
| TERMINAL (d) | 1/39 (3%) | 3/37 (8%) | 4/37 (11%) | 1/33 (3%) |
| FIRST INCIDENCE | 731 (T) | 698 | 731 (T) | 731 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.347N | P=0.182 | P=0.183 | P=0.752 |
| POLY 1.5 | P=0.336N | P=0.184 | P=0.184 | P=0.757 |
| POLY 6 | P=0.362N | P=0.177 | P=0.179 | P=0.746 |
| COCH-ARM / FISHERS | P=0.324N | P=0.181 | P=0.181 | P=0.753N |
| MAX-ISO-POLY-3 | P=0.303 | P=0.087 | P=0.088 | P=0.489 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|---------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Kidney | | | | |
| Metaplasia Osseous | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 1/50 (2%) | 2/50 (4%) | 1/50 (2%) |
| POLY-3 RATE (b) | 0/45.30 | 1/45.68 | 2/45.92 | 1/43.61 |
| POLY-3 PERCENT (g) | 0% | 2.2% | 4.4% | 2.3% |
| TERMINAL (d) | 0/39 (0%) | 1/37 (3%) | 2/37 (5%) | 1/33 (3%) |
| FIRST INCIDENCE | --- | 731 (T) | 731 (T) | 731 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.502 | P=0.502 | P=0.240 | P=0.492 |
| POLY 1.5 | P=0.511 | P=0.503 | P=0.241 | P=0.496 |
| POLY 6 | P=0.490 | P=0.498 | P=0.238 | P=0.486 |
| COCH-ARM / FISHERS | P=0.522 | P=0.500 | P=0.247 | P=0.500 |
| MAX-ISO-POLY-3 | P=0.243 | P=0.161 | P=0.079 | P=0.158 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|---------------------------|--------------|-------------|-------------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Kidney Nephropathy | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 47/50 (94%) | 46/50 (92%) | 49/50 (98%) | 47/50 (94%) |
| POLY-3 RATE (b) | 47/48.66 | 46/49.27 | 49/50.00 | 47/48.52 |
| POLY-3 PERCENT (g) | 96.6% | 93.4% | 98% | 96.9% |
| TERMINAL (d) | 39/39 (100%) | 35/37 (95%) | 36/37 (97%) | 32/33 (97%) |
| FIRST INCIDENCE | 345 | 508 | 460 | 433 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.455 | P=0.387N | P=0.579 | P=0.706 |
| POLY 1.5 | P=0.480 | P=0.391N | P=0.505 | P=0.704 |
| POLY 6 | P=0.467 | P=0.401N | P=0.671 | P=0.737 |
| COCH-ARM / FISHERS | P=0.559 | P=0.500N | P=0.309 | P=0.661N |
| MAX-ISO-POLY-3 | P=0.403 | P=0.218N | P=0.326 | P=0.466 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Kidney: Artery Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 0/50 (0%) | 0/50 (0%) | 0/50 (0%) |
| POLY-3 RATE (b) | 0/45.30 | 0/45.68 | 0/45.92 | 0/43.61 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/39 (0%) | 0/37 (0%) | 0/37 (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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|-----------------------------|-----------|-----------|-----------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Larynx | | | | |
| Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/49 (0%) | 0/49 (0%) | 0/50 (0%) | 10/50 (20%) |
| POLY-3 RATE (b) | 0/44.30 | 0/44.81 | 0/45.92 | 10/44.86 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 22.3% |
| TERMINAL (d) | 0/38 (0%) | 0/37 (0%) | 0/37 (0%) | 6/33 (18%) |
| FIRST INCIDENCE | --- | --- | --- | 536 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P<0.001** | (e) | (e) | P<0.001** |
| POLY 1.5 | P<0.001** | (e) | (e) | P<0.001** |
| POLY 6 | P<0.001** | (e) | (e) | P<0.001** |
| COCH-ARM / FISHERS | P<0.001** | (e) | (e) | P<0.001** |
| MAX-ISO-POLY-3 | P<0.001** | (e) | (e) | P<0.001** |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|-----------|--------------|--------------|--------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Larynx Metaplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/49 (2%) | 49/49 (100%) | 50/50 (100%) | 50/50 (100%) |
| POLY-3 RATE (b) | 1/44.30 | 49/49.00 | 50/50.00 | 50/50.00 |
| POLY-3 PERCENT (g) | 2.3% | 100% | 100% | 100% |
| TERMINAL (d) | 1/38 (3%) | 37/37 (100%) | 37/37 (100%) | 33/33 (100%) |
| FIRST INCIDENCE | 731 (T) | 508 | 460 | 250 |
| 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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Larynx | | | | |
| Necrosis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/49 (0%) | 0/49 (0%) | 0/50 (0%) | 4/50 (8%) |
| POLY-3 RATE (b) | 0/44.30 | 0/44.81 | 0/45.92 | 4/45.36 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 8.8% |
| TERMINAL (d) | 0/38 (0%) | 0/37 (0%) | 0/37 (0%) | 1/33 (3%) |
| FIRST INCIDENCE | --- | --- | --- | 536 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.002** | (e) | (e) | P=0.063 |
| POLY 1.5 | P=0.002** | (e) | (e) | P=0.064 |
| POLY 6 | P=0.002** | (e) | (e) | P=0.062 |
| COCH-ARM / FISHERS | P=0.002** | (e) | (e) | P=0.061 |
| MAX-ISO-POLY-3 | P=0.003** | (e) | (e) | P=0.021* |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Liver | | | | |
| Angiectasis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 2/50 (4%) | 1/50 (2%) | 2/50 (4%) |
| POLY-3 RATE (b) | 0/45.30 | 2/46.16 | 1/46.04 | 2/43.68 |
| POLY-3 PERCENT (g) | 0% | 4.3% | 2.2% | 4.6% |
| TERMINAL (d) | 0/39 (0%) | 0/37 (0%) | 0/37 (0%) | 1/33 (3%) |
| FIRST INCIDENCE | --- | 635 | 698 | 713 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.307 | P=0.241 | P=0.503 | P=0.229 |
| POLY 1.5 | P=0.315 | P=0.242 | P=0.503 | P=0.233 |
| POLY 6 | P=0.298 | P=0.239 | P=0.502 | P=0.223 |
| COCH-ARM / FISHERS | P=0.322 | P=0.247 | P=0.500 | P=0.247 |
| MAX-ISO-POLY-3 | P=0.163 | P=0.080 | P=0.163 | P=0.076 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|------------|------------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Liver | | | | |
| Basophilic Focus | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 6/50 (12%) | 5/50 (10%) | 3/50 (6%) | 4/50 (8%) |
| POLY-3 RATE (b) | 6/45.30 | 5/45.68 | 3/46.34 | 4/43.95 |
| POLY-3 PERCENT (g) | 13.3% | 10.9% | 6.5% | 9.1% |
| TERMINAL (d) | 6/39 (15%) | 5/37 (14%) | 2/37 (5%) | 3/33 (9%) |
| FIRST INCIDENCE | 731 (T) | 731 (T) | 608 | 634 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.383N | P=0.494N | P=0.231N | P=0.388N |
| POLY 1.5 | P=0.375N | P=0.490N | P=0.232N | P=0.378N |
| POLY 6 | P=0.392N | P=0.506N | P=0.232N | P=0.403N |
| COCH-ARM / FISHERS | P=0.361N | P=0.500N | P=0.243N | P=0.370N |
| MAX-ISO-POLY-3 | P=0.324N | P=0.368N | P=0.141N | P=0.272N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 1/50 (2%) | 0/50 (0%) | 0/50 (0%) | 0/50 (0%) |
| POLY-3 RATE (b) | 1/45.30 | 0/45.68 | 0/45.92 | 0/43.61 |
| POLY-3 PERCENT (g) | 2.2% | 0% | 0% | 0% |
| TERMINAL (d) | 1/39 (3%) | 0/37 (0%) | 0/37 (0%) | 0/33 (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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|---------------------------|------------|-----------|------------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Liver | | | | |
| Eosinophilic Focus | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 6/50 (12%) | 1/50 (2%) | 5/50 (10%) | 13/50 (26%) |
| POLY-3 RATE (b) | 6/45.30 | 1/45.81 | 5/46.74 | 13/43.94 |
| POLY-3 PERCENT (g) | 13.3% | 2.2% | 10.7% | 29.6% |
| TERMINAL (d) | 6/39 (15%) | 0/37 (0%) | 3/37 (8%) | 11/33 (33%) |
| FIRST INCIDENCE | 731 (T) | 698 | 576 | 688 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P<0.001** | P=0.054N | P=0.478N | P=0.049* |
| POLY 1.5 | P<0.001** | P=0.054N | P=0.482N | P=0.055 |
| POLY 6 | P<0.001** | P=0.056N | P=0.477N | P=0.043* |
| COCH-ARM / FISHERS | P<0.001** | P=0.056N | P=0.500N | P=0.062 |
| MAX-ISO-POLY-3 | P<0.001** | P=0.023N* | P=0.355N | P=0.030* |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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%) | 2/50 (4%) | 1/50 (2%) | 5/50 (10%) |
| POLY-3 RATE (b) | 3/45.87 | 2/46.25 | 1/45.92 | 5/43.84 |
| POLY-3 PERCENT (g) | 6.5% | 4.3% | 2.2% | 11.4% |
| TERMINAL (d) | 2/39 (5%) | 1/37 (3%) | 1/37 (3%) | 4/33 (12%) |
| FIRST INCIDENCE | 549 | 552 | 731 (T) | 669 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.138 | P=0.496N | P=0.305N | P=0.332 |
| POLY 1.5 | P=0.143 | P=0.494N | P=0.302N | P=0.344 |
| POLY 6 | P=0.132 | P=0.504N | P=0.310N | P=0.315 |
| COCH-ARM / FISHERS | P=0.152 | P=0.500N | P=0.309N | P=0.357 |
| MAX-ISO-POLY-3 | P=0.140 | P=0.321N | P=0.154N | P=0.216 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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%) | 4/50 (8%) | 1/50 (2%) | 0/50 (0%) |
| POLY-3 RATE (b) | 2/45.30 | 4/45.68 | 1/45.92 | 0/43.61 |
| POLY-3 PERCENT (g) | 4.4% | 8.8% | 2.2% | 0% |
| TERMINAL (d) | 2/39 (5%) | 4/37 (11%) | 1/37 (3%) | 0/33 (0%) |
| FIRST INCIDENCE | 731 (T) | 731 (T) | 731 (T) | --- |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.087N | P=0.341 | P=0.495N | P=0.246N |
| POLY 1.5 | P=0.084N | P=0.344 | P=0.494N | P=0.241N |
| POLY 6 | P=0.091N | P=0.333 | P=0.499N | P=0.252N |
| COCH-ARM / FISHERS | P=0.082N | P=0.339 | P=0.500N | P=0.247N |
| MAX-ISO-POLY-3 | P=0.093N | P=0.205 | P=0.278N | P=0.084N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Liver Necrosis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 2/50 (4%) | 0/50 (0%) | 2/50 (4%) | 4/50 (8%) |
| POLY-3 RATE (b) | 2/45.71 | 0/45.68 | 2/46.02 | 4/45.24 |
| POLY-3 PERCENT (g) | 4.4% | 0% | 4.4% | 8.8% |
| TERMINAL (d) | 1/39 (3%) | 0/37 (0%) | 1/37 (3%) | 1/33 (3%) |
| FIRST INCIDENCE | 613 | --- | 705 | 433 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.086 | P=0.237N | P=0.691N | P=0.332 |
| POLY 1.5 | P=0.087 | P=0.235N | P=0.689N | P=0.337 |
| POLY 6 | P=0.085 | P=0.242N | P=0.692 | P=0.323 |
| COCH-ARM / FISHERS | P=0.089 | P=0.247N | P=0.691N | P=0.339 |
| MAX-ISO-POLY-3 | P=0.099 | P=0.076N | P=0.496N | P=0.198 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|------------|------------|------------|------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Liver | | | | |
| Tension Lipidosis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 6/50 (12%) | 5/50 (10%) | 5/50 (10%) | 6/50 (12%) |
| POLY-3 RATE (b) | 6/46.50 | 5/45.68 | 5/45.92 | 6/43.68 |
| POLY-3 PERCENT (g) | 12.9% | 10.9% | 10.9% | 13.7% |
| TERMINAL (d) | 4/39 (10%) | 5/37 (14%) | 5/37 (14%) | 5/33 (15%) |
| FIRST INCIDENCE | 527 | 731 (T) | 731 (T) | 713 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.468 | P=0.512N | P=0.509N | P=0.576 |
| POLY 1.5 | P=0.485 | P=0.501N | P=0.500N | P=0.597 |
| POLY 6 | P=0.446 | P=0.532N | P=0.524N | P=0.548 |
| COCH-ARM / FISHERS | P=0.511 | P=0.500N | P=0.500N | P=0.620N |
| MAX-ISO-POLY-3 | P=0.598 | P=0.386N | P=0.383N | P=0.454 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Lung Hemorrhage | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 1/50 (2%) | 1/50 (2%) | 2/50 (4%) |
| POLY-3 RATE (b) | 1/45.30 | 1/46.13 | 1/45.92 | 2/43.61 |
| POLY-3 PERCENT (g) | 2.2% | 2.2% | 2.2% | 4.6% |
| TERMINAL (d) | 1/39 (3%) | 0/37 (0%) | 1/37 (3%) | 2/33 (6%) |
| FIRST INCIDENCE | 731 (T) | 599 | 731 (T) | 731 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.347 | P=0.757N | P=0.758N | P=0.487 |
| POLY 1.5 | P=0.354 | P=0.756N | P=0.757N | P=0.494 |
| POLY 6 | P=0.338 | P=0.759N | P=0.760N | P=0.476 |
| COCH-ARM / FISHERS | P=0.363 | P=0.753N | P=0.753N | P=0.500 |
| MAX-ISO-POLY-3 | P=0.408 | P=0.494N | P=0.495N | P=0.273 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|---|-----------|-----------|-----------|------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Lung | | | | |
| Infiltration Cellular Histiocyte | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 4/50 (8%) | 1/50 (2%) | 1/50 (2%) | 6/50 (12%) |
| POLY-3 RATE (b) | 4/45.71 | 1/45.68 | 1/46.00 | 6/43.61 |
| POLY-3 PERCENT (g) | 8.8% | 2.2% | 2.2% | 13.8% |
| TERMINAL (d) | 3/39 (8%) | 1/37 (3%) | 0/37 (0%) | 6/33 (18%) |
| FIRST INCIDENCE | 613 | 731 (T) | 709 | 731 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.069 | P=0.179N | P=0.177N | P=0.340 |
| POLY 1.5 | P=0.072 | P=0.176N | P=0.175N | P=0.355 |
| POLY 6 | P=0.066 | P=0.185N | P=0.180N | P=0.318 |
| COCH-ARM / FISHERS | P=0.080 | P=0.181N | P=0.181N | P=0.370 |
| MAX-ISO-POLY-3 | P=0.065 | P=0.084N | P=0.083N | P=0.233 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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%) | 2/50 (4%) | 5/50 (10%) | 4/50 (8%) |
| POLY-3 RATE (b) | 4/45.30 | 2/45.68 | 5/46.67 | 4/44.12 |
| POLY-3 PERCENT (g) | 8.8% | 4.4% | 10.7% | 9.1% |
| TERMINAL (d) | 4/39 (10%) | 2/37 (5%) | 4/37 (11%) | 2/33 (6%) |
| FIRST INCIDENCE | 731 (T) | 731 (T) | 460 | 634 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.446 | P=0.333N | P=0.519 | P=0.629 |
| POLY 1.5 | P=0.454 | P=0.331N | P=0.517 | P=0.637 |
| POLY 6 | P=0.438 | P=0.341N | P=0.516 | P=0.618 |
| COCH-ARM / FISHERS | P=0.469 | P=0.339N | P=0.500 | P=0.643N |
| MAX-ISO-POLY-3 | P=0.465 | P=0.198N | P=0.382 | P=0.484 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|-------------------------------------|------------|-----------|-------------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Lung: Bronchiole Hyperplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 7/50 (14%) | 4/50 (8%) | 22/50 (44%) | 41/50 (82%) |
| POLY-3 RATE (b) | 7/45.47 | 4/46.25 | 22/46.80 | 41/46.90 |
| POLY-3 PERCENT (g) | 15.4% | 8.7% | 47% | 87.4% |
| TERMINAL (d) | 6/39 (15%) | 3/37 (8%) | 20/37 (54%) | 31/33 (94%) |
| FIRST INCIDENCE | 686 | 552 | 595 | 433 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P<0.001** | P=0.251N | P<0.001** | P<0.001** |
| POLY 1.5 | P<0.001** | P=0.250N | P<0.001** | P<0.001** |
| POLY 6 | P<0.001** | P=0.258N | P<0.001** | P<0.001** |
| COCH-ARM / FISHERS | P<0.001** | P=0.262N | P<0.001** | P<0.001** |
| MAX-ISO-POLY-3 | P<0.001** | P=0.163N | P<0.001** | P<0.001** |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--|-----------|-----------|-----------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Lung: Perivascular Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 4/50 (8%) | 3/50 (6%) | 0/50 (0%) | 11/50 (22%) |
| POLY-3 RATE (b) | 4/45.41 | 3/46.14 | 0/45.92 | 11/43.92 |
| POLY-3 PERCENT (g) | 8.8% | 6.5% | 0% | 25% |
| TERMINAL (d) | 3/39 (8%) | 2/37 (5%) | 0/37 (0%) | 10/33 (30%) |
| FIRST INCIDENCE | 702 | 598 | --- | 644 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P<0.001** | P=0.491N | P=0.059N | P=0.036* |
| POLY 1.5 | P<0.001** | P=0.490N | P=0.059N | P=0.040* |
| POLY 6 | P<0.001** | P=0.498N | P=0.060N | P=0.031* |
| COCH-ARM / FISHERS | P=0.002** | P=0.500N | P=0.059N | P=0.045* |
| MAX-ISO-POLY-3 | P<0.001** | P=0.341N | P=0.019N* | P=0.020* |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Lymph Node, Mandibular Hyperplasia Lymphoid | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/41 (0%) | 0/42 (0%) | 0/43 (0%) | 0/35 (0%) |
| POLY-3 RATE (b) | 0/37.98 | 0/39.01 | 0/39.04 | 0/30.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/33 (0%) | 0/32 (0%) | 0/31 (0%) | 0/20 (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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|---|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Lymph Node, Mediastinal Hyperplasia Lymphoid | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/43 (0%) | 1/46 (2%) | 0/40 (0%) | 2/47 (4%) |
| POLY-3 RATE (b) | 0/41.37 | 1/42.36 | 0/37.10 | 2/40.84 |
| POLY-3 PERCENT (g) | 0% | 2.4% | 0% | 4.9% |
| TERMINAL (d) | 0/37 (0%) | 0/35 (0%) | 0/29 (0%) | 1/31 (3%) |
| FIRST INCIDENCE | --- | 677 | --- | 712 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.150 | P=0.505 | (e) | P=0.234 |
| POLY 1.5 | P=0.156 | P=0.508 | (e) | P=0.242 |
| POLY 6 | P=0.143 | P=0.500 | (e) | P=0.224 |
| COCH-ARM / FISHERS | P=0.166 | P=0.517 | (e) | P=0.270 |
| MAX-ISO-POLY-3 | P=0.089 | P=0.163 | (e) | P=0.080 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|---|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Lymph Node, Mesenteric Angiectasis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/48 (0%) | 1/50 (2%) | 2/49 (4%) | 1/49 (2%) |
| POLY-3 RATE (b) | 0/43.30 | 1/45.68 | 2/45.67 | 1/42.61 |
| POLY-3 PERCENT (g) | 0% | 2.2% | 4.4% | 2.4% |
| TERMINAL (d) | 0/37 (0%) | 1/37 (3%) | 2/37 (5%) | 1/32 (3%) |
| FIRST INCIDENCE | --- | 731 (T) | 731 (T) | 731 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.504 | P=0.511 | P=0.249 | P=0.497 |
| POLY 1.5 | P=0.513 | P=0.512 | P=0.248 | P=0.501 |
| POLY 6 | P=0.491 | P=0.508 | P=0.248 | P=0.491 |
| COCH-ARM / FISHERS | P=0.523 | P=0.510 | P=0.253 | P=0.505 |
| MAX-ISO-POLY-3 | P=0.246 | P=0.169 | P=0.086 | P=0.160 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 0/48 (0%) | 0/50 (0%) | 2/49 (4%) | 0/49 (0%) |
| POLY-3 RATE (b) | 0/43.30 | 0/45.68 | 2/45.80 | 0/42.61 |
| POLY-3 PERCENT (g) | 0% | 0% | 4.4% | 0% |
| TERMINAL (d) | 0/37 (0%) | 0/37 (0%) | 1/37 (3%) | 0/32 (0%) |
| FIRST INCIDENCE | --- | --- | 698 | --- |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.693N | (e) | P=0.250 | (e) |
| POLY 1.5 | P=0.688N | (e) | P=0.249 | (e) |
| POLY 6 | P=0.701N | (e) | P=0.249 | (e) |
| COCH-ARM / FISHERS | P=0.679N | (e) | P=0.253 | (e) |
| MAX-ISO-POLY-3 | P=0.268 | (e) | P=0.087 | (e) |

Experiment Number: 20515 - 04
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
Time Report Requested: 14:13:47
First Dose M/F: 05/05/08 / 05/05/08
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Lymph Node, Mesenteric Hemorrhage | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/48 (0%) | 2/50 (4%) | 0/49 (0%) | 0/49 (0%) |
| POLY-3 RATE (b) | 0/43.30 | 2/46.25 | 0/45.67 | 0/42.61 |
| POLY-3 PERCENT (g) | 0% | 4.3% | 0% | 0% |
| TERMINAL (d) | 0/37 (0%) | 1/37 (3%) | 0/37 (0%) | 0/32 (0%) |
| FIRST INCIDENCE | --- | 552 | --- | --- |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.388N | P=0.252 | (e) | (e) |
| POLY 1.5 | P=0.385N | P=0.252 | (e) | (e) |
| POLY 6 | P=0.393N | P=0.250 | (e) | (e) |
| COCH-ARM / FISHERS | P=0.386N | P=0.258 | (e) | (e) |
| MAX-ISO-POLY-3 | P=0.273N | P=0.088 | (e) | (e) |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 1/11 (9%) | 1/12 (8%) | 2/16 (13%) | 0/10 (0%) |
| POLY-3 RATE (b) | 1/10.90 | 1/11.38 | 2/14.65 | 0/8.46 |
| POLY-3 PERCENT (g) | 9.2% | 8.8% | 13.7% | 0% |
| TERMINAL (d) | 1/10 (10%) | 1/9 (11%) | 1/10 (10%) | 0/6 (0%) |
| FIRST INCIDENCE | 731 (T) | 731 (T) | 681 | --- |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.401N | P=0.751N | P=0.605 | P=0.550N |
| POLY 1.5 | P=0.383N | P=0.746N | P=0.617 | P=0.537N |
| POLY 6 | P=0.426N | P=0.759N | P=0.588 | P=0.567N |
| COCH-ARM / FISHERS | P=0.356N | P=0.739N | P=0.643 | P=0.524N |
| MAX-ISO-POLY-3 | P=0.378N | P=0.487N | P=0.373 | P=0.214N |

Experiment Number: 20515 - 04
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
Time Report Requested: 14:13:47
First Dose M/F: 05/05/08 / 05/05/08
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|------|---------|----------|----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |

Lymph Node: Renal
Hyperplasia Lymphoid

LESION RATES

| | | | | |
|--------------------|-----------|------------|-----------|-----------|
| OVERALL (a) | 0/11 (0%) | 2/12 (17%) | 0/16 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.90 | 2/11.59 | 0/14.46 | 0/8.46 |
| POLY-3 PERCENT (g) | 0% | 17.3% | 0% | 0% |
| TERMINAL (d) | 0/10 (0%) | 1/9 (11%) | 0/10 (0%) | 0/6 (0%) |
| FIRST INCIDENCE | --- | 677 | --- | --- |

STATISTICAL TESTS

| | | | | |
|--------------------|----------|---------|-----|-----|
| POLY 3 | P=0.428N | P=0.243 | (e) | (e) |
| POLY 1.5 | P=0.419N | P=0.246 | (e) | (e) |
| POLY 6 | P=0.441N | P=0.238 | (e) | (e) |
| COCH-ARM / FISHERS | P=0.411N | P=0.261 | (e) | (e) |
| MAX-ISO-POLY-3 | P=0.310N | P=0.076 | (e) | (e) |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|----------------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Mammary Gland Hyperplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 2/50 (4%) | 0/50 (0%) | 0/50 (0%) | 1/50 (2%) |
| POLY-3 RATE (b) | 2/45.30 | 0/45.68 | 0/45.92 | 1/43.61 |
| POLY-3 PERCENT (g) | 4.4% | 0% | 0% | 2.3% |
| TERMINAL (d) | 2/39 (5%) | 0/37 (0%) | 0/37 (0%) | 1/33 (3%) |
| FIRST INCIDENCE | 731 (T) | --- | --- | 731 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.676N | P=0.235N | P=0.234N | P=0.513N |
| POLY 1.5 | P=0.675N | P=0.234N | P=0.234N | P=0.506N |
| POLY 6 | P=0.675N | P=0.239N | P=0.236N | P=0.524N |
| COCH-ARM / FISHERS | P=0.670N | P=0.247N | P=0.247N | P=0.500N |
| MAX-ISO-POLY-3 | P=0.152N | P=0.076N | P=0.076N | P=0.295N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|------------------------------------|-------------|-------------|------------|------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Mesentery: Fat Necrosis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 11/16 (69%) | 17/23 (74%) | 7/21 (33%) | 8/15 (53%) |
| POLY-3 RATE (b) | 11/15.89 | 17/22.31 | 7/19.01 | 8/14.39 |
| POLY-3 PERCENT (g) | 69.2% | 76.2% | 36.8% | 55.6% |
| TERMINAL (d) | 11/15 (73%) | 12/15 (80%) | 6/15 (40%) | 5/11 (46%) |
| FIRST INCIDENCE | 731 (T) | 583 | 704 | 433 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.179N | P=0.457 | P=0.050N* | P=0.347N |
| POLY 1.5 | P=0.177N | P=0.479 | P=0.041N* | P=0.332N |
| POLY 6 | P=0.177N | P=0.419 | P=0.065N | P=0.359N |
| COCH-ARM / FISHERS | P=0.179N | P=0.500 | P=0.035N* | P=0.305N |
| MAX-ISO-POLY-3 | P=0.083N | P=0.327 | P=0.025N* | P=0.230N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|----------------------------------|------------|------------|-----------|------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Nose Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 9/50 (18%) | 0/49 (0%) | 3/50 (6%) | 5/50 (10%) |
| POLY-3 RATE (b) | 9/46.47 | 0/45.14 | 3/45.92 | 5/44.05 |
| POLY-3 PERCENT (g) | 19.4% | 0% | 6.5% | 11.4% |
| TERMINAL (d) | 6/39 (15%) | 0/37 (0%) | 3/37 (8%) | 3/33 (9%) |
| FIRST INCIDENCE | 527 | --- | 731 (T) | 644 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.583 | P=0.002N** | P=0.062N | P=0.223N |
| POLY 1.5 | P=0.590 | P=0.002N** | P=0.059N | P=0.208N |
| POLY 6 | P=0.577 | P=0.002N** | P=0.067N | P=0.244N |
| COCH-ARM / FISHERS | P=0.572N | P<0.001N** | P=0.061N | P=0.194N |
| MAX-ISO-POLY-3 | P=0.024N* | P<0.001N** | P=0.033N* | P=0.152N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Nose | | | | |
| Necrosis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 1/49 (2%) | 2/50 (4%) | 1/50 (2%) |
| POLY-3 RATE (b) | 1/45.30 | 1/45.59 | 2/46.11 | 1/43.61 |
| POLY-3 PERCENT (g) | 2.2% | 2.2% | 4.3% | 2.3% |
| TERMINAL (d) | 1/39 (3%) | 0/37 (0%) | 1/37 (3%) | 1/33 (3%) |
| FIRST INCIDENCE | 731 (T) | 599 | 681 | 731 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.651N | P=0.759N | P=0.506 | P=0.752 |
| POLY 1.5 | P=0.643N | P=0.759N | P=0.506 | P=0.757 |
| POLY 6 | P=0.644 | P=0.760N | P=0.504 | P=0.746 |
| COCH-ARM / FISHERS | P=0.634N | P=0.747 | P=0.500 | P=0.753N |
| MAX-ISO-POLY-3 | P=0.590 | P=0.497N | P=0.288 | P=0.489 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 25/50 (50%) | 40/49 (82%) | 50/50 (100%) | 49/50 (98%) |
| POLY-3 RATE (b) | 25/46.16 | 40/49.00 | 50/50.00 | 49/49.92 |
| POLY-3 PERCENT (g) | 54.2% | 81.6% | 100% | 98.2% |
| TERMINAL (d) | 22/39 (56%) | 28/37 (76%) | 37/37 (100%) | 33/33 (100%) |
| FIRST INCIDENCE | 549 | 508 | 460 | 250 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P<0.001** | P=0.003** | P<0.001** | P<0.001** |
| POLY 1.5 | P<0.001** | P=0.002** | P<0.001** | P<0.001** |
| POLY 6 | P<0.001** | P=0.005** | 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=0.002** | P<0.001** | P<0.001** |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|---|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Nose: Olfactory Epithelium Atrophy | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 1/49 (2%) | 0/50 (0%) | 1/50 (2%) |
| POLY-3 RATE (b) | 1/45.30 | 1/45.25 | 0/45.92 | 1/43.68 |
| POLY-3 PERCENT (g) | 2.2% | 2.2% | 0% | 2.3% |
| TERMINAL (d) | 1/39 (3%) | 0/37 (0%) | 0/37 (0%) | 0/33 (0%) |
| FIRST INCIDENCE | 731 (T) | 701 | --- | 712 |
| 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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--|-----------|-----------|-------------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Nose: Olfactory Epithelium Metaplasia Respiratory | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 3/50 (6%) | 4/49 (8%) | 12/50 (24%) | 23/50 (46%) |
| POLY-3 RATE (b) | 3/45.87 | 4/46.35 | 12/47.06 | 23/45.02 |
| POLY-3 PERCENT (g) | 6.5% | 8.6% | 25.5% | 51.1% |
| TERMINAL (d) | 2/39 (5%) | 1/37 (3%) | 7/37 (19%) | 17/33 (52%) |
| FIRST INCIDENCE | 549 | 508 | 608 | 563 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P<0.001** | P=0.506 | P=0.012* | P<0.001** |
| POLY 1.5 | P<0.001** | P=0.504 | P=0.012* | P<0.001** |
| POLY 6 | P<0.001** | P=0.504 | P=0.012* | P<0.001** |
| COCH-ARM / FISHERS | P<0.001** | P=0.489 | P=0.011* | P<0.001** |
| MAX-ISO-POLY-3 | P<0.001** | P=0.354 | P=0.006** | P<0.001** |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 34/50 (68%) | 48/49 (98%) | 50/50 (100%) | 50/50 (100%) |
| POLY-3 RATE (b) | 34/46.17 | 48/49.00 | 50/50.00 | 50/50.00 |
| POLY-3 PERCENT (g) | 73.6% | 98% | 100% | 100% |
| TERMINAL (d) | 30/39 (77%) | 36/37 (97%) | 37/37 (100%) | 33/33 (100%) |
| FIRST INCIDENCE | 613 | 508 | 460 | 250 |
| 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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|---|-------------|-------------|-------------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Nose: Respiratory Epithelium Hyperplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 39/50 (78%) | 48/49 (98%) | 39/50 (78%) | 39/50 (78%) |
| POLY-3 RATE (b) | 39/47.77 | 48/49.00 | 39/49.09 | 39/47.03 |
| POLY-3 PERCENT (g) | 81.6% | 98% | 79.4% | 82.9% |
| TERMINAL (d) | 34/39 (87%) | 36/37 (97%) | 29/37 (78%) | 27/33 (82%) |
| FIRST INCIDENCE | 194 | 508 | 460 | 433 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.242N | P=0.006** | P=0.493N | P=0.544 |
| POLY 1.5 | P=0.208N | P=0.004** | P=0.529N | P=0.556 |
| POLY 6 | P=0.275N | P=0.011* | P=0.453N | P=0.543 |
| COCH-ARM / FISHERS | P=0.152N | P=0.002** | P=0.595N | P=0.595N |
| MAX-ISO-POLY-3 | P=0.169N | P=0.002** | P=0.389N | P=0.431 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Nose: Respiratory Epithelium Metaplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 1/49 (2%) | 0/50 (0%) | 1/50 (2%) |
| POLY-3 RATE (b) | 0/45.30 | 1/45.34 | 0/45.92 | 1/43.61 |
| POLY-3 PERCENT (g) | 0% | 2.2% | 0% | 2.3% |
| TERMINAL (d) | 0/39 (0%) | 0/37 (0%) | 0/37 (0%) | 1/33 (3%) |
| FIRST INCIDENCE | --- | 677 | --- | 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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Ovary | | | | |
| Angiectasis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 3/50 (6%) | 2/50 (4%) | 0/48 (0%) | 3/50 (6%) |
| POLY-3 RATE (b) | 3/45.30 | 2/45.81 | 0/45.10 | 3/43.61 |
| POLY-3 PERCENT (g) | 6.6% | 4.4% | 0% | 6.9% |
| TERMINAL (d) | 3/39 (8%) | 1/37 (3%) | 0/37 (0%) | 3/33 (9%) |
| FIRST INCIDENCE | 731 (T) | 698 | --- | 731 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.468 | P=0.495N | P=0.119N | P=0.645 |
| POLY 1.5 | P=0.475 | P=0.493N | P=0.121N | P=0.654 |
| POLY 6 | P=0.460 | P=0.501N | P=0.119N | P=0.631 |
| COCH-ARM / FISHERS | P=0.486 | P=0.500N | P=0.129N | P=0.661N |
| MAX-ISO-POLY-3 | P=0.383N | P=0.320N | P=0.039N* | P=0.480 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|-------------|-------------|-------------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Ovary Cyst | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 14/50 (28%) | 12/50 (24%) | 12/48 (25%) | 16/50 (32%) |
| POLY-3 RATE (b) | 14/46.68 | 12/46.80 | 12/45.93 | 16/45.33 |
| POLY-3 PERCENT (g) | 30% | 25.6% | 26.1% | 35.3% |
| TERMINAL (d) | 11/39 (28%) | 9/37 (24%) | 9/37 (24%) | 12/33 (36%) |
| FIRST INCIDENCE | 527 | 583 | 608 | 250 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.229 | P=0.406N | P=0.428N | P=0.374 |
| POLY 1.5 | P=0.249 | P=0.398N | P=0.431N | P=0.401 |
| POLY 6 | P=0.204 | P=0.423N | P=0.430N | P=0.336 |
| COCH-ARM / FISHERS | P=0.268 | P=0.410N | P=0.458N | P=0.414 |
| MAX-ISO-POLY-3 | P=0.331 | P=0.320N | P=0.340N | P=0.296 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|-------------|-------------|------------|-------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Ovary Hemorrhage | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 12/50 (24%) | 16/50 (32%) | 7/48 (15%) | 15/50 (30%) |
| POLY-3 RATE (b) | 12/45.30 | 16/45.93 | 7/45.10 | 15/43.92 |
| POLY-3 PERCENT (g) | 26.5% | 34.8% | 15.5% | 34.2% |
| TERMINAL (d) | 12/39 (31%) | 14/37 (38%) | 7/37 (19%) | 14/33 (42%) |
| FIRST INCIDENCE | 731 (T) | 698 | 731 (T) | 644 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.322 | P=0.261 | P=0.153N | P=0.288 |
| POLY 1.5 | P=0.342 | P=0.267 | P=0.158N | P=0.308 |
| POLY 6 | P=0.298 | P=0.247 | P=0.151N | P=0.260 |
| COCH-ARM / FISHERS | P=0.370 | P=0.252 | P=0.178N | P=0.326 |
| MAX-ISO-POLY-3 | P=0.306 | P=0.195 | P=0.101N | P=0.219 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|-----------------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Ovary Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 2/50 (4%) | 3/48 (6%) | 2/50 (4%) |
| POLY-3 RATE (b) | 1/45.30 | 2/46.24 | 3/45.53 | 2/44.40 |
| POLY-3 PERCENT (g) | 2.2% | 4.3% | 6.6% | 4.5% |
| TERMINAL (d) | 1/39 (3%) | 0/37 (0%) | 2/37 (5%) | 1/33 (3%) |
| FIRST INCIDENCE | 731 (T) | 634 | 608 | 433 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.501 | P=0.507 | P=0.307 | P=0.493 |
| POLY 1.5 | P=0.509 | P=0.507 | P=0.303 | P=0.498 |
| POLY 6 | P=0.488 | P=0.505 | P=0.309 | P=0.484 |
| COCH-ARM / FISHERS | P=0.517 | P=0.500 | P=0.293 | P=0.500 |
| MAX-ISO-POLY-3 | P=0.367 | P=0.289 | P=0.159 | P=0.276 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|---|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Ovary: Corpus Luteum Hyperplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 3/50 (6%) | 1/50 (2%) | 0/48 (0%) | 0/50 (0%) |
| POLY-3 RATE (b) | 3/45.30 | 1/45.68 | 0/45.10 | 0/43.61 |
| POLY-3 PERCENT (g) | 6.6% | 2.2% | 0% | 0% |
| TERMINAL (d) | 3/39 (8%) | 1/37 (3%) | 0/37 (0%) | 0/33 (0%) |
| FIRST INCIDENCE | 731 (T) | 731 (T) | --- | --- |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.111N | P=0.302N | P=0.119N | P=0.126N |
| POLY 1.5 | P=0.111N | P=0.300N | P=0.121N | P=0.122N |
| POLY 6 | P=0.112N | P=0.308N | P=0.119N | P=0.131N |
| COCH-ARM / FISHERS | P=0.109N | P=0.309N | P=0.129N | P=0.121N |
| MAX-ISO-POLY-3 | P=0.031N* | P=0.153N | P=0.039N* | P=0.044N* |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|---------------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Pancreas: Acinus Atrophy | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 0/50 (0%) | 1/50 (2%) | 2/50 (4%) |
| POLY-3 RATE (b) | 1/45.30 | 0/45.68 | 1/45.92 | 2/43.77 |
| POLY-3 PERCENT (g) | 2.2% | 0% | 2.2% | 4.6% |
| TERMINAL (d) | 1/39 (3%) | 0/37 (0%) | 1/37 (3%) | 1/33 (3%) |
| FIRST INCIDENCE | 731 (T) | --- | 731 (T) | 688 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.226 | P=0.498N | P=0.758N | P=0.488 |
| POLY 1.5 | P=0.230 | P=0.497N | P=0.757N | P=0.494 |
| POLY 6 | P=0.222 | P=0.502N | P=0.760N | P=0.479 |
| COCH-ARM / FISHERS | P=0.237 | P=0.500N | P=0.753N | P=0.500 |
| MAX-ISO-POLY-3 | P=0.227 | P=0.159N | P=0.495N | P=0.274 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--|-----------|-----------|-----------|------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Pituitary Gland Angiectasis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 2/50 (4%) | 1/50 (2%) | 0/49 (0%) | 4/50 (8%) |
| POLY-3 RATE (b) | 2/45.30 | 1/45.68 | 0/45.23 | 4/43.61 |
| POLY-3 PERCENT (g) | 4.4% | 2.2% | 0% | 9.2% |
| TERMINAL (d) | 2/39 (5%) | 1/37 (3%) | 0/37 (0%) | 4/33 (12%) |
| FIRST INCIDENCE | 731 (T) | 731 (T) | --- | 731 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.094 | P=0.497N | P=0.237N | P=0.320 |
| POLY 1.5 | P=0.096 | P=0.495N | P=0.238N | P=0.329 |
| POLY 6 | P=0.091 | P=0.503N | P=0.239N | P=0.306 |
| COCH-ARM / FISHERS | P=0.102 | P=0.500N | P=0.253N | P=0.339 |
| MAX-ISO-POLY-3 | P=0.078 | P=0.279N | P=0.077N | P=0.191 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 17/50 (34%) | 21/50 (42%) | 19/49 (39%) | 24/50 (48%) |
| POLY-3 RATE (b) | 17/45.71 | 21/45.74 | 19/45.54 | 24/45.06 |
| POLY-3 PERCENT (g) | 37.2% | 45.9% | 41.7% | 53.3% |
| TERMINAL (d) | 16/39 (41%) | 20/37 (54%) | 17/37 (46%) | 20/33 (61%) |
| FIRST INCIDENCE | 613 | 717 | 677 | 536 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.103 | P=0.261 | P=0.409 | P=0.088 |
| POLY 1.5 | P=0.112 | P=0.277 | P=0.412 | P=0.099 |
| POLY 6 | P=0.091 | P=0.230 | P=0.401 | P=0.073 |
| COCH-ARM / FISHERS | P=0.129 | P=0.268 | P=0.388 | P=0.111 |
| MAX-ISO-POLY-3 | P=0.098 | P=0.197 | P=0.329 | P=0.059 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|---|------------|-----------|----------|------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Skeletal Muscle Infiltration Cellular Lymphocyte | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 3/3 (100%) | 1/3 (33%) | 0/1 (0%) | 0/4 (0%) |
| POLY-3 RATE (b) | 3/3.00 | 1/2.65 | 0/0.58 | 0/2.59 |
| POLY-3 PERCENT (g) | 100% | 37.7% | 0% | 0% |
| TERMINAL (d) | 0/0 (0%) | 0/1 (0%) | 0/0 (0%) | 0/1 (0%) |
| FIRST INCIDENCE | 605 | 717 | --- | --- |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.010N** | P=0.202N | P=0.250N | P<0.001N** |
| POLY 1.5 | P=0.006N** | P=0.178N | P=0.250N | P<0.001N** |
| POLY 6 | P=0.036N* | P=0.255N | P=0.250N | P=0.004N** |
| COCH-ARM / FISHERS | P=0.043N* | P=0.200N | P=0.250N | P=0.029N* |
| MAX-ISO-POLY-3 | P=0.002N** | P=0.033N* | (e) | P<0.001N** |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|-----------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Skin | | | | |
| Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 0/50 (0%) | 1/50 (2%) | 2/50 (4%) |
| POLY-3 RATE (b) | 0/45.30 | 0/45.68 | 1/46.43 | 2/43.61 |
| POLY-3 PERCENT (g) | 0% | 0% | 2.2% | 4.6% |
| TERMINAL (d) | 0/39 (0%) | 0/37 (0%) | 0/37 (0%) | 2/33 (6%) |
| FIRST INCIDENCE | --- | --- | 576 | 731 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.083 | (e) | P=0.505 | P=0.229 |
| POLY 1.5 | P=0.085 | (e) | P=0.504 | P=0.233 |
| POLY 6 | P=0.079 | (e) | P=0.504 | P=0.222 |
| COCH-ARM / FISHERS | P=0.089 | (e) | P=0.500 | P=0.247 |
| MAX-ISO-POLY-3 | P=0.080 | (e) | P=0.165 | P=0.076 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Skin | | | | |
| Ulcer | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 0/50 (0%) | 1/50 (2%) | 3/50 (6%) |
| POLY-3 RATE (b) | 1/45.47 | 0/45.68 | 1/46.34 | 3/43.90 |
| POLY-3 PERCENT (g) | 2.2% | 0% | 2.2% | 6.8% |
| TERMINAL (d) | 0/39 (0%) | 0/37 (0%) | 0/37 (0%) | 1/33 (3%) |
| FIRST INCIDENCE | 686 | --- | 608 | 688 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.076 | P=0.499N | P=0.756N | P=0.293 |
| POLY 1.5 | P=0.078 | P=0.497N | P=0.756N | P=0.299 |
| POLY 6 | P=0.074 | P=0.503N | P=0.758N | P=0.283 |
| COCH-ARM / FISHERS | P=0.081 | P=0.500N | P=0.753N | P=0.309 |
| MAX-ISO-POLY-3 | P=0.085 | P=0.159N | P=0.494N | P=0.149 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 4/50 (8%) | 3/50 (6%) | 3/50 (6%) | 2/49 (4%) |
| POLY-3 RATE (b) | 4/46.10 | 3/46.59 | 3/46.23 | 2/42.92 |
| POLY-3 PERCENT (g) | 8.7% | 6.4% | 6.5% | 4.7% |
| TERMINAL (d) | 2/39 (5%) | 0/37 (0%) | 2/37 (5%) | 2/33 (6%) |
| FIRST INCIDENCE | 527 | 583 | 644 | 731 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.348N | P=0.494N | P=0.498N | P=0.371N |
| POLY 1.5 | P=0.337N | P=0.492N | P=0.495N | P=0.359N |
| POLY 6 | P=0.361N | P=0.501N | P=0.506N | P=0.387N |
| COCH-ARM / FISHERS | P=0.319N | P=0.500N | P=0.500N | P=0.349N |
| MAX-ISO-POLY-3 | P=0.379N | P=0.343N | P=0.346N | P=0.233N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Spleen: Lymphoid Follicle Hyperplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 0/50 (0%) | 1/50 (2%) | 0/49 (0%) |
| POLY-3 RATE (b) | 0/45.30 | 0/45.68 | 1/45.92 | 0/42.92 |
| POLY-3 PERCENT (g) | 0% | 0% | 2.2% | 0% |
| TERMINAL (d) | 0/39 (0%) | 0/37 (0%) | 1/37 (3%) | 0/33 (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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|---|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Stomach, Forestomach Hyperplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 1/50 (2%) | 2/50 (4%) | 2/50 (4%) |
| POLY-3 RATE (b) | 1/45.30 | 1/45.68 | 2/45.92 | 2/44.21 |
| POLY-3 PERCENT (g) | 2.2% | 2.2% | 4.4% | 4.5% |
| TERMINAL (d) | 1/39 (3%) | 1/37 (3%) | 2/37 (5%) | 1/33 (3%) |
| FIRST INCIDENCE | 731 (T) | 731 (T) | 731 (T) | 536 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.381 | P=0.759N | P=0.505 | P=0.492 |
| POLY 1.5 | P=0.386 | P=0.757N | P=0.506 | P=0.497 |
| POLY 6 | P=0.373 | P=0.759 | P=0.501 | P=0.484 |
| COCH-ARM / FISHERS | P=0.393 | P=0.753N | P=0.500 | P=0.500 |
| MAX-ISO-POLY-3 | P=0.442 | P=0.497N | P=0.286 | P=0.276 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Stomach, Forestomach Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 0/50 (0%) | 0/50 (0%) | 1/50 (2%) |
| POLY-3 RATE (b) | 0/45.30 | 0/45.68 | 0/45.92 | 1/43.86 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 2.3% |
| TERMINAL (d) | 0/39 (0%) | 0/37 (0%) | 0/37 (0%) | 0/33 (0%) |
| FIRST INCIDENCE | --- | --- | --- | 663 |
| 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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Stomach, Glandular Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/50 (2%) | 0/50 (0%) | 0/50 (0%) | 0/50 (0%) |
| POLY-3 RATE (b) | 1/45.30 | 0/45.68 | 0/45.92 | 0/43.61 |
| POLY-3 PERCENT (g) | 2.2% | 0% | 0% | 0% |
| TERMINAL (d) | 1/39 (3%) | 0/37 (0%) | 0/37 (0%) | 0/33 (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 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Stomach, Glandular: Glands Mineralization | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 0/50 (0%) | 2/50 (4%) | 1/50 (2%) |
| POLY-3 RATE (b) | 0/45.30 | 0/45.68 | 2/45.92 | 1/43.61 |
| POLY-3 PERCENT (g) | 0% | 0% | 4.4% | 2.3% |
| TERMINAL (d) | 0/39 (0%) | 0/37 (0%) | 2/37 (5%) | 1/33 (3%) |
| FIRST INCIDENCE | --- | --- | 731 (T) | 731 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.359 | (e) | P=0.240 | P=0.492 |
| POLY 1.5 | P=0.366 | (e) | P=0.241 | P=0.496 |
| POLY 6 | P=0.348 | (e) | P=0.238 | P=0.486 |
| COCH-ARM / FISHERS | P=0.377 | (e) | P=0.247 | P=0.500 |
| MAX-ISO-POLY-3 | P=0.185 | (e) | P=0.079 | P=0.158 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Thymus Atrophy | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 2/44 (5%) | 0/46 (0%) | 0/45 (0%) | 1/45 (2%) |
| POLY-3 RATE (b) | 2/42.16 | 0/43.01 | 0/42.29 | 1/40.21 |
| POLY-3 PERCENT (g) | 4.7% | 0% | 0% | 2.5% |
| TERMINAL (d) | 0/35 (0%) | 0/36 (0%) | 0/36 (0%) | 0/32 (0%) |
| FIRST INCIDENCE | 194 | --- | --- | 250 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.671N | P=0.233N | P=0.236N | P=0.517N |
| POLY 1.5 | P=0.671N | P=0.230N | P=0.235N | P=0.507N |
| POLY 6 | P=0.671N | P=0.236N | P=0.239N | P=0.528N |
| COCH-ARM / FISHERS | P=0.670N | P=0.236N | P=0.242N | P=0.491N |
| MAX-ISO-POLY-3 | P=0.155N | P=0.074N | P=0.076N | P=0.300N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|---|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Thyroid Gland Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/50 (0%) | 1/48 (2%) | 2/50 (4%) | 2/50 (4%) |
| POLY-3 RATE (b) | 0/45.30 | 1/44.18 | 2/45.92 | 2/43.84 |
| POLY-3 PERCENT (g) | 0% | 2.3% | 4.4% | 4.6% |
| TERMINAL (d) | 0/39 (0%) | 1/36 (3%) | 2/37 (5%) | 1/33 (3%) |
| FIRST INCIDENCE | --- | 731 (T) | 731 (T) | 669 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.233 | P=0.495 | P=0.240 | P=0.230 |
| POLY 1.5 | P=0.239 | P=0.496 | P=0.241 | P=0.234 |
| POLY 6 | P=0.224 | P=0.492 | P=0.238 | P=0.224 |
| COCH-ARM / FISHERS | P=0.246 | P=0.490 | P=0.247 | P=0.247 |
| MAX-ISO-POLY-3 | P=0.165 | P=0.156 | P=0.079 | P=0.076 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 1/50 (2%) | 1/48 (2%) | 2/50 (4%) | 3/50 (6%) |
| POLY-3 RATE (b) | 1/45.30 | 1/44.18 | 2/46.11 | 3/43.89 |
| POLY-3 PERCENT (g) | 2.2% | 2.3% | 4.3% | 6.8% |
| TERMINAL (d) | 1/39 (3%) | 1/36 (3%) | 1/37 (3%) | 1/33 (3%) |
| FIRST INCIDENCE | 731 (T) | 731 (T) | 681 | 691 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.180 | P=0.755 | P=0.506 | P=0.294 |
| POLY 1.5 | P=0.185 | P=0.756 | P=0.506 | P=0.300 |
| POLY 6 | P=0.174 | P=0.752 | P=0.504 | P=0.285 |
| COCH-ARM / FISHERS | P=0.192 | P=0.742 | P=0.500 | P=0.309 |
| MAX-ISO-POLY-3 | P=0.222 | P=0.492 | P=0.288 | P=0.149 |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 03/08/2013
 Time Report Requested: 14:13:47
 First Dose M/F: 05/05/08 / 05/05/08
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|------------|----------|------------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Tooth Dysplasia | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 1/1 (100%) | 0/0 (0%) | 2/2 (100%) | 3/4 (75%) |
| POLY-3 RATE (b) | 1/1.00 | 0/0.00 | 2/2.00 | 3/4.00 |
| POLY-3 PERCENT (g) | 100% | 0% | 100% | 75% |
| TERMINAL (d) | 1/1 (100%) | 0/0 (0%) | 2/2 (100%) | 2/3 (67%) |
| FIRST INCIDENCE | 731 (T) | --- | 731 (T) | 699 |
| STATISTICAL TESTS | | | | |
| POLY 3 | (e) | (e) | (e) | P=0.749N |
| POLY 1.5 | (e) | (e) | (e) | P=0.749N |
| POLY 6 | (e) | (e) | (e) | P=0.749N |
| COCH-ARM / FISHERS | P=0.506N | (e) | (e) | P=0.800N |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | P=0.361N |

Experiment Number: 20515 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

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 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|-----------------------------------|----------|----------|----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Tooth Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 0/1 (0%) | 0/0 (0%) | 0/2 (0%) | 2/4 (50%) |
| POLY-3 RATE (b) | 0/1.00 | 0/0.00 | 0/2.00 | 2/4.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 50% |
| TERMINAL (d) | 0/1 (0%) | 0/0 (0%) | 0/2 (0%) | 1/3 (33%) |
| FIRST INCIDENCE | --- | --- | --- | 699 |
| STATISTICAL TESTS | | | | |
| POLY 3 | (e) | (e) | (e) | P=0.577 |
| POLY 1.5 | (e) | (e) | (e) | P=0.577 |
| POLY 6 | (e) | (e) | (e) | P=0.577 |
| COCH-ARM / FISHERS | P=0.244 | (e) | (e) | P=0.600 |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | P=0.270 |

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 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|------------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Uterus | | | | |
| Angiectasis | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 5/50 (10%) | 3/50 (6%) | 1/50 (2%) | 1/50 (2%) |
| POLY-3 RATE (b) | 5/45.30 | 3/45.89 | 1/45.92 | 1/43.61 |
| POLY-3 PERCENT (g) | 11% | 6.5% | 2.2% | 2.3% |
| TERMINAL (d) | 5/39 (13%) | 2/37 (5%) | 1/37 (3%) | 1/33 (3%) |
| FIRST INCIDENCE | 731 (T) | 677 | 731 (T) | 731 (T) |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.104N | P=0.349N | P=0.098N | P=0.110N |
| POLY 1.5 | P=0.102N | P=0.347N | P=0.098N | P=0.106N |
| POLY 6 | P=0.108N | P=0.356N | P=0.100N | P=0.117N |
| COCH-ARM / FISHERS | P=0.097N | P=0.357N | P=0.102N | P=0.102N |
| MAX-ISO-POLY-3 | P=0.062N | P=0.227N | P=0.044N* | P=0.052N |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|--------------------------|------------|------------|------------|------------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Uterus Dilatation | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 6/50 (12%) | 5/50 (10%) | 8/50 (16%) | 6/50 (12%) |
| POLY-3 RATE (b) | 6/45.61 | 5/47.50 | 8/48.42 | 6/44.80 |
| POLY-3 PERCENT (g) | 13.2% | 10.5% | 16.5% | 13.4% |
| TERMINAL (d) | 4/39 (10%) | 1/37 (3%) | 1/37 (3%) | 2/33 (6%) |
| FIRST INCIDENCE | 677 | 552 | 460 | 536 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.504 | P=0.472N | P=0.434 | P=0.608 |
| POLY 1.5 | P=0.518 | P=0.477N | P=0.421 | P=0.616 |
| POLY 6 | P=0.487 | P=0.471N | P=0.444 | P=0.596 |
| COCH-ARM / FISHERS | P=0.541 | P=0.500N | P=0.387 | P=0.620N |
| MAX-ISO-POLY-3 | P=0.528 | P=0.350N | P=0.329 | P=0.486 |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE | Females | | | |
|-----------------------------|-----------|-----------|-----------|-----------|
| | Control | 10 mg/m3 | 30 mg/m3 | 100 mg/m3 |
| Uterus | | | | |
| Inflammation Chronic | | | | |
| LESION RATES | | | | |
| OVERALL (a) | 2/50 (4%) | 2/50 (4%) | 3/50 (6%) | 4/50 (8%) |
| POLY-3 RATE (b) | 2/45.30 | 2/46.15 | 3/46.47 | 4/43.77 |
| POLY-3 PERCENT (g) | 4.4% | 4.3% | 6.5% | 9.1% |
| TERMINAL (d) | 2/39 (5%) | 0/37 (0%) | 1/37 (3%) | 3/33 (9%) |
| FIRST INCIDENCE | 731 (T) | 634 | 608 | 688 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.217 | P=0.687N | P=0.512 | P=0.321 |
| POLY 1.5 | P=0.225 | P=0.687N | P=0.510 | P=0.330 |
| POLY 6 | P=0.207 | P=0.690N | P=0.511 | P=0.309 |
| COCH-ARM / FISHERS | P=0.236 | P=0.691N | P=0.500 | P=0.339 |
| MAX-ISO-POLY-3 | P=0.294 | P=0.492N | P=0.336 | P=0.192 |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 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) | 28/50 (56%) | 29/50 (58%) | 33/50 (66%) | 34/50 (68%) |
| POLY-3 RATE (b) | 28/46.74 | 29/46.16 | 33/46.42 | 34/45.16 |
| POLY-3 PERCENT (g) | 59.9% | 62.8% | 71.1% | 75.3% |
| TERMINAL (d) | 25/39 (64%) | 27/37 (73%) | 31/37 (84%) | 29/33 (88%) |
| FIRST INCIDENCE | 345 | 635 | 644 | 563 |
| STATISTICAL TESTS | | | | |
| POLY 3 | P=0.063 | P=0.469 | P=0.173 | P=0.080 |
| POLY 1.5 | P=0.083 | P=0.498 | P=0.195 | P=0.106 |
| POLY 6 | P=0.045* | P=0.419 | P=0.143 | P=0.054 |
| COCH-ARM / FISHERS | P=0.126 | P=0.500 | P=0.206 | P=0.151 |
| MAX-ISO-POLY-3 | P=0.087 | P=0.383 | P=0.122 | P=0.053 |

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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 ***