

Experiment Number: 20523 - 04
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Metal Working Fluids: Trim VX

CAS Number: TRIMVX

Date Report Requested: 02/02/2015

Time Report Requested: 13:50:12

First Dose M/F: 08/03/09 / 08/03/09

Lab: BNW

F1_M3

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

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HISTORICAL CONTROL STUDIES
From November 2014 report

SAME ROUTE

60311-06 -- Cobalt (INHALATION AIR)
20515-04 -- Metal Working Fluids: CIMSTAR 3800 (INHALATION AIR)
20303-06 -- Vinylidene Chloride (INHALATION AIR)

ALL ROUTES

60311-06 -- Cobalt (INHALATION AIR)
99031-04 -- Ginkgo biloba extract (GAVAGE CORN OIL)
20203-04 -- Green Tea Extract (GAVAGE WATER)
20006-04 -- Indole-3-carbinol (GAVAGE CORN OIL)
20007-06 -- Kava kava extract (GAVAGE CORN OIL)
20515-04 -- Metal Working Fluids: CIMSTAR 3800 (INHALATION AIR)
20107-04 -- N,N-Dimethyl-p-toluidine (GAVAGE CORN OIL)
20209-04 -- Pentabromodiphenyl Oxide (Technical) (DE 71) (GAVAGE CORN OIL)
20009-04 -- beta-Picoline (ORAL WATER)
99032-04 -- Pyrogallol (SKIN ETHANOL)
20320-04 -- Tetrabromobisphenol A (GAVAGE CORN OIL)
88133-08 -- Trimethylolpropane triacrylate (SKIN ACETONE)
20303-06 -- Vinylidene Chloride (INHALATION AIR)
96014-06 -- Water Disinfection Byproducts: Bromodichloroacetic Acid (ORAL WATER)

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**FOR ALL DOSES THE TUMOR RATES IN THE FOLLOWING TISSUES/ORGANS ARE BASED ON NUMBER OF TISSUES EXAMINED.
IN OTHER TISSUES/ORGANS RATES ARE BASED ON THE NUMBER OF ANIMALS NECROPSIED.**

Adrenal Cortex

Adrenal Medulla

Liver

Lung

Ovary

Pituitary Gland

Spleen

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF METAL WORKING FLUIDS: TRIM VX

MALE MICE

Organ

Intestine Small: Duodenum
Intestine Small: Site Unspecified
Liver

Lung

Lymph Node, Mesenteric
All Organs

Morphology

Adenoma
Adenoma
Hepatoblastoma
Hepatocellular Adenoma
Alveolar/Bronchiolar Carcinoma
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma
Hemangiosarcoma
Hemangiosarcoma
Hemangiosarcoma or Hemangioma
Benign Tumors
Malignant and Benign Tumors

FEMALE MICE

Organ

Harderian Gland
Liver

Lung

Pituitary Gland: Pars Distalis or Unspecified Site
Skin

All Organs

Morphology

Carcinoma or Adenoma
Hepatocellular Carcinoma
Hepatocellular Carcinoma or Hepatoblastoma
Hepatocellular Carcinoma or Hepatocellular Adenoma
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma
Alveolar/Bronchiolar Carcinoma
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma
Carcinoma
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)
Schwannoma Malignant
Malignant Tumors
Malignant and Benign Tumors

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex Adenoma				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	4/50 (8%)	2/49 (4%)	7/49 (14%)
POLY-3 RATE (b)	3/44.42	4/45.33	2/43.83	7/44.64
POLY-3 PERCENT (g)	6.8%	8.8%	4.6%	15.7%
TERMINAL (d)	3/38 (8%)	4/39 (10%)	2/37 (5%)	7/37 (19%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
HC TUMORS SAME ROUTE	11/149 (7%)			
HC TUMORS ALL ROUTES	36/697 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.084	P=0.511	P=0.506N	P=0.158
POLY 1.5	P=0.083	P=0.508	P=0.510N	P=0.156
POLY 6	P=0.084	P=0.511	P=0.503N	P=0.159
COCH-ARM / FISHERS	P=0.081	P=0.500	P=0.510N	P=0.151
MAX-ISO-POLY-3	P=0.115	P=0.359	P=0.329N	P=0.092
HISTCONT SAME RTE	P=0.297	P=1.000	P=1.000	P=0.233
HISTCONT ALL RTES	P=0.106	P=0.368	P=1.000	P=0.049*
CURR VS HC SAME RTE	P=0.851			
CURR VS HC ALL RTES	P=0.856			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Medulla				
Pheochromocytoma Benign				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/48 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/44.42	0/45.33	0/42.83	0/44.64
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/38 (0%)	0/39 (0%)	0/36 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	2/148 (1%)			
HC TUMORS ALL ROUTES	3/695 (0%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/48 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/44.42	0/45.33	0/42.83	0/44.64
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/38 (0%)	0/39 (0%)	0/36 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	3/148 (2%)			
HC TUMORS ALL ROUTES	4/695 (1%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Harderian Gland Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	5/50 (10%)	3/50 (6%)	7/50 (14%)
POLY-3 RATE (b)	4/45.24	5/45.60	3/44.99	7/45.40
POLY-3 PERCENT (g)	8.8%	11%	6.7%	15.4%
TERMINAL (d)	3/38 (8%)	4/39 (10%)	2/37 (5%)	7/37 (19%)
FIRST INCIDENCE	414	656	647	729 (T)
HC TUMORS SAME ROUTE	20/150 (13%)			
HC TUMORS ALL ROUTES	90/700 (13%)			
STATISTICAL TESTS				
POLY 3	P=0.195	P=0.505	P=0.503N	P=0.263
POLY 1.5	P=0.196	P=0.504	P=0.506N	P=0.263
POLY 6	P=0.192	P=0.505	P=0.500N	P=0.260
COCH-ARM / FISHERS	P=0.195	P=0.500	P=0.500N	P=0.262
MAX-ISO-POLY-3	P=0.251	P=0.368	P=0.350N	P=0.170
HISTCONT SAME RTE	P=0.400	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.621	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.272			
CURR VS HC ALL RTES	P=0.253			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Harderian Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	3/50 (6%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	2/44.42	3/45.33	2/44.69	1/45.40
POLY-3 PERCENT (g)	4.5%	6.6%	4.5%	2.2%
TERMINAL (d)	2/38 (5%)	3/39 (8%)	2/37 (5%)	1/37 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
HC TUMORS SAME ROUTE	7/150 (5%)			
HC TUMORS ALL ROUTES	21/700 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.298N	P=0.509	P=0.692N	P=0.492N
POLY 1.5	P=0.300N	P=0.507	P=0.693	P=0.494N
POLY 6	P=0.298N	P=0.509	P=0.690N	P=0.492N
COCH-ARM / FISHERS	P=0.304N	P=0.500	P=0.691N	P=0.500N
MAX-ISO-POLY-3	P=0.363N	P=0.333	P=0.497N	P=0.276N
HISTCONT SAME RTE	P=1.000	P=0.494	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.634	P=0.204	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.899			
CURR VS HC ALL RTES	P=0.732			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Harderian Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	6/50 (12%)	8/50 (16%)	5/50 (10%)	8/50 (16%)
POLY-3 RATE (b)	6/45.24	8/45.60	5/44.99	8/45.40
POLY-3 PERCENT (g)	13.3%	17.5%	11.1%	17.6%
TERMINAL (d)	5/38 (13%)	7/39 (18%)	4/37 (11%)	8/37 (22%)
FIRST INCIDENCE	414	656	647	729 (T)
HC TUMORS SAME ROUTE	27/150 (18%)			
HC TUMORS ALL ROUTES	111/700 (16%)			
STATISTICAL TESTS				
POLY 3	P=0.398	P=0.392	P=0.504N	P=0.389
POLY 1.5	P=0.400	P=0.392	P=0.508N	P=0.389
POLY 6	P=0.394	P=0.392	P=0.500N	P=0.386
COCH-ARM / FISHERS	P=0.397	P=0.387	P=0.500N	P=0.387
MAX-ISO-POLY-3	P=0.452	P=0.288	P=0.377N	P=0.284
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.332			
CURR VS HC ALL RTES	P=0.387			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Intestine Small: Duodenum Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/44.42	0/45.33	0/44.69	0/45.40
POLY-3 PERCENT (g)	4.5%	0%	0%	0%
TERMINAL (d)	2/38 (5%)	0/39 (0%)	0/37 (0%)	0/37 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
HC TUMORS SAME ROUTE	2/150 (1%)			
HC TUMORS ALL ROUTES	6/700 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.261N	P=0.233N	P=0.236N	P=0.232N
POLY 1.5	P=0.261N	P=0.234N	P=0.238N	P=0.234N
POLY 6	P=0.261N	P=0.233N	P=0.234N	P=0.232N
COCH-ARM / FISHERS	P=0.260N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.035N*	P=0.076N	P=0.076N	P=0.076N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.182			
CURR VS HC ALL RTES	P=0.039*			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Intestine Small: Site Unspecified Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/44.42	0/45.33	0/44.69	0/45.40
POLY-3 PERCENT (g)	4.5%	0%	0%	0%
TERMINAL (d)	2/38 (5%)	0/39 (0%)	0/37 (0%)	0/37 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
HC TUMORS SAME ROUTE	4/150 (3%)			
HC TUMORS ALL ROUTES	11/700 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.261N	P=0.233N	P=0.236N	P=0.232N
POLY 1.5	P=0.261N	P=0.234N	P=0.238N	P=0.234N
POLY 6	P=0.261N	P=0.233N	P=0.234N	P=0.232N
COCH-ARM / FISHERS	P=0.260N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.035N*	P=0.076N	P=0.076N	P=0.076N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.594			
CURR VS HC ALL RTES	P=0.224			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Hepatoblastoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	0/44.42	0/45.33	4/45.26	2/45.92
POLY-3 PERCENT (g)	0%	0%	8.8%	4.4%
TERMINAL (d)	0/38 (0%)	0/39 (0%)	3/37 (8%)	1/37 (3%)
FIRST INCIDENCE	---	---	549	571
HC TUMORS SAME ROUTE	3/150 (2%)			
HC TUMORS ALL ROUTES	34/700 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.216	(e)	P=0.063	P=0.245
POLY 1.5	P=0.212	(e)	P=0.061	P=0.242
POLY 6	P=0.220	(e)	P=0.064	P=0.246
COCH-ARM / FISHERS	P=0.208	(e)	P=0.059	P=0.247
MAX-ISO-POLY-3	P=0.067	(e)	P=0.021*	P=0.083
HISTCONT SAME RTE	P=0.181	(e)	P=0.072	P=0.357
HISTCONT ALL RTES	P=0.632	(e)	P=0.263	P=1.000
CURR VS HC SAME RTE	P=0.309			
CURR VS HC ALL RTES	P=0.092			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Hepatocellular Adenoma				
TUMOR RATES				
OVERALL (a)	23/50 (46%)	29/50 (58%)	26/50 (52%)	36/50 (72%)
POLY-3 RATE (b)	23/45.40	29/46.27	26/46.28	36/48.13
POLY-3 PERCENT (g)	50.7%	62.7%	56.2%	74.8%
TERMINAL (d)	20/38 (53%)	26/39 (67%)	22/37 (60%)	26/37 (70%)
FIRST INCIDENCE	618	628	344	537
HC TUMORS SAME ROUTE	89/150 (59%)			
HC TUMORS ALL ROUTES	437/700 (62%)			
STATISTICAL TESTS				
POLY 3	P=0.014*	P=0.166	P=0.373	P=0.011*
POLY 1.5	P=0.011*	P=0.166	P=0.355	P=0.008**
POLY 6	P=0.020*	P=0.159	P=0.376	P=0.015*
COCH-ARM / FISHERS	P=0.009**	P=0.158	P=0.345	P=0.007**
MAX-ISO-POLY-3	P=0.013*	P=0.120	P=0.298	P=0.007**
HISTCONT SAME RTE	P=0.219	P=1.000	P=1.000	P=0.166
HISTCONT ALL RTES	P=0.407	P=1.000	P=1.000	P=0.238
CURR VS HC SAME RTE	P=0.329			
CURR VS HC ALL RTES	P=0.014*			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Hepatocellular Carcinoma				
TUMOR RATES				
OVERALL (a)	21/50 (42%)	18/50 (36%)	14/50 (28%)	21/50 (42%)
POLY-3 RATE (b)	21/48.46	18/47.11	14/45.93	21/48.97
POLY-3 PERCENT (g)	43.3%	38.2%	30.5%	42.9%
TERMINAL (d)	12/38 (32%)	13/39 (33%)	9/37 (24%)	11/37 (30%)
FIRST INCIDENCE	414	550	583	424
HC TUMORS SAME ROUTE	62/150 (41%)			
HC TUMORS ALL ROUTES	262/700 (37%)			
STATISTICAL TESTS				
POLY 3	P=0.436	P=0.382N	P=0.139N	P=0.563N
POLY 1.5	P=0.422	P=0.363N	P=0.130N	P=0.566N
POLY 6	P=0.448	P=0.407N	P=0.152N	P=0.565N
COCH-ARM / FISHERS	P=0.392	P=0.341N	P=0.104N	P=0.580N
MAX-ISO-POLY-3	P=0.412N	P=0.308N	P=0.103N	P=0.481N
HISTCONT SAME RTE	P=0.646	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.656	P=1.000	P=1.000	P=0.457
CURR VS HC SAME RTE	P=0.956			
CURR VS HC ALL RTES	P=0.752			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Hepatocellular Carcinoma or Hepatoblastoma				
TUMOR RATES				
OVERALL (a)	21/50 (42%)	18/50 (36%)	18/50 (36%)	23/50 (46%)
POLY-3 RATE (b)	21/48.46	18/47.11	18/46.50	23/49.49
POLY-3 PERCENT (g)	43.3%	38.2%	38.7%	46.5%
TERMINAL (d)	12/38 (32%)	13/39 (33%)	12/37 (32%)	12/37 (32%)
FIRST INCIDENCE	414	550	549	424
HC TUMORS SAME ROUTE	65/150 (43%)			
HC TUMORS ALL ROUTES	281/700 (40%)			
STATISTICAL TESTS				
POLY 3	P=0.302	P=0.382N	P=0.402N	P=0.457
POLY 1.5	P=0.283	P=0.363N	P=0.389N	P=0.446
POLY 6	P=0.322	P=0.407N	P=0.417N	P=0.464
COCH-ARM / FISHERS	P=0.247	P=0.341N	P=0.341N	P=0.420
MAX-ISO-POLY-3	P=0.423	P=0.308N	P=0.327N	P=0.378
HISTCONT SAME RTE	P=0.622	P=1.000	P=1.000	P=0.486
HISTCONT ALL RTES	P=0.619	P=1.000	P=1.000	P=0.417
CURR VS HC SAME RTE	P=0.908			
CURR VS HC ALL RTES	P=0.949			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Hepatocellular Carcinoma or Hepatocellular Adenoma				
TUMOR RATES				
OVERALL (a)	34/50 (68%)	35/50 (70%)	33/50 (66%)	41/50 (82%)
POLY-3 RATE (b)	34/48.85	35/47.42	33/46.96	41/50.00
POLY-3 PERCENT (g)	69.6%	73.8%	70.3%	82%
TERMINAL (d)	24/38 (63%)	29/39 (74%)	26/37 (70%)	28/37 (76%)
FIRST INCIDENCE	414	550	344	424
HC TUMORS SAME ROUTE	114/150 (76%)			
HC TUMORS ALL ROUTES	541/700 (77%)			
STATISTICAL TESTS				
POLY 3	P=0.092	P=0.407	P=0.561	P=0.113
POLY 1.5	P=0.075	P=0.449	P=0.584N	P=0.101
POLY 6	P=0.115	P=0.356	P=0.514	P=0.124
COCH-ARM / FISHERS	P=0.055	P=0.500	P=0.500N	P=0.083
MAX-ISO-POLY-3	P=0.124	P=0.324	P=0.471	P=0.076
HISTCONT SAME RTE	P=0.398	P=1.000	P=1.000	P=0.336
HISTCONT ALL RTES	P=0.674	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.454			
CURR VS HC ALL RTES	P=0.039*			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma				
TUMOR RATES				
OVERALL (a)	34/50 (68%)	35/50 (70%)	35/50 (70%)	41/50 (82%)
POLY-3 RATE (b)	34/48.85	35/47.42	35/47.53	41/50.00
POLY-3 PERCENT (g)	69.6%	73.8%	73.6%	82%
TERMINAL (d)	24/38 (63%)	29/39 (74%)	27/37 (73%)	28/37 (76%)
FIRST INCIDENCE	414	550	344	424
HC TUMORS SAME ROUTE	116/150 (77%)			
HC TUMORS ALL ROUTES	545/700 (78%)			
STATISTICAL TESTS				
POLY 3	P=0.097	P=0.407	P=0.415	P=0.113
POLY 1.5	P=0.079	P=0.449	P=0.435	P=0.101
POLY 6	P=0.120	P=0.356	P=0.383	P=0.124
COCH-ARM / FISHERS	P=0.057	P=0.500	P=0.500	P=0.083
MAX-ISO-POLY-3	P=0.122	P=0.324	P=0.331	P=0.076
HISTCONT SAME RTE	P=0.484	P=1.000	P=1.000	P=0.396
HISTCONT ALL RTES	P=0.719	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.396			
CURR VS HC ALL RTES	P=0.030*			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	6/50 (12%)	8/50 (16%)	5/49 (10%)	9/50 (18%)
POLY-3 RATE (b)	6/45.88	8/45.60	5/44.44	9/45.92
POLY-3 PERCENT (g)	13.1%	17.5%	11.3%	19.6%
TERMINAL (d)	2/38 (5%)	7/39 (18%)	4/37 (11%)	8/37 (22%)
FIRST INCIDENCE	549	656	533	571
HC TUMORS SAME ROUTE	19/150 (13%)			
HC TUMORS ALL ROUTES	106/700 (15%)			
STATISTICAL TESTS				
POLY 3	P=0.279	P=0.382	P=0.522N	P=0.287
POLY 1.5	P=0.281	P=0.387	P=0.523N	P=0.291
POLY 6	P=0.272	P=0.368	P=0.528N	P=0.277
COCH-ARM / FISHERS	P=0.278	P=0.387	P=0.514N	P=0.288
MAX-ISO-POLY-3	P=0.314	P=0.279	P=0.395N	P=0.200
HISTCONT SAME RTE	P=0.153	P=0.223	P=1.000	P=0.114
HISTCONT ALL RTES	P=0.613	P=1.000	P=1.000	P=0.436
CURR VS HC SAME RTE	P=0.879			
CURR VS HC ALL RTES	P=0.440			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung				
Alveolar/Bronchiolar Carcinoma				
TUMOR RATES				
OVERALL (a)	10/50 (20%)	8/50 (16%)	9/49 (18%)	17/50 (34%)
POLY-3 RATE (b)	10/45.22	8/45.33	9/44.51	17/46.53
POLY-3 PERCENT (g)	22.1%	17.7%	20.2%	36.5%
TERMINAL (d)	7/38 (18%)	8/39 (21%)	7/37 (19%)	12/37 (32%)
FIRST INCIDENCE	549	729 (T)	533	571
HC TUMORS SAME ROUTE	28/150 (19%)			
HC TUMORS ALL ROUTES	90/700 (13%)			
STATISTICAL TESTS				
POLY 3	P=0.021*	P=0.394N	P=0.516N	P=0.097
POLY 1.5	P=0.020*	P=0.392N	P=0.523N	P=0.094
POLY 6	P=0.022*	P=0.404N	P=0.512N	P=0.100
COCH-ARM / FISHERS	P=0.019*	P=0.398N	P=0.520N	P=0.088
MAX-ISO-POLY-3	P=0.034*	P=0.298N	P=0.412N	P=0.066
HISTCONT SAME RTE	P=0.022*	P=1.000	P=1.000	P=0.030*
HISTCONT ALL RTES	P=0.004**	P=0.384	P=0.231	P<0.001**
CURR VS HC SAME RTE	P=0.766			
CURR VS HC ALL RTES	P=0.198			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	14/50 (28%)	14/50 (28%)	11/49 (22%)	23/50 (46%)
POLY-3 RATE (b)	14/45.91	14/45.60	11/44.51	23/46.53
POLY-3 PERCENT (g)	30.5%	30.7%	24.7%	49.4%
TERMINAL (d)	9/38 (24%)	13/39 (33%)	9/37 (24%)	18/37 (49%)
FIRST INCIDENCE	549	656	533	571
HC TUMORS SAME ROUTE	42/150 (28%)			
HC TUMORS ALL ROUTES	186/700 (27%)			
STATISTICAL TESTS				
POLY 3	P=0.013*	P=0.581	P=0.352N	P=0.047*
POLY 1.5	P=0.013*	P=0.588N	P=0.354N	P=0.048*
POLY 6	P=0.013*	P=0.560	P=0.359N	P=0.044*
COCH-ARM / FISHERS	P=0.014*	P=0.588N	P=0.343N	P=0.048*
MAX-ISO-POLY-3	P=0.021*	P=0.491	P=0.272N	P=0.030*
HISTCONT SAME RTE	P=0.032*	P=1.000	P=1.000	P=0.026*
HISTCONT ALL RTES	P=0.008**	P=1.000	P=1.000	P<0.001**
CURR VS HC SAME RTE	P=0.967			
CURR VS HC ALL RTES	P=0.979			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lymph Node, Mesenteric Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/44.42	0/45.33	0/44.69	2/45.40
POLY-3 PERCENT (g)	0%	0%	0%	4.4%
TERMINAL (d)	0/38 (0%)	0/39 (0%)	0/37 (0%)	2/37 (5%)
FIRST INCIDENCE	---	---	---	729 (T)
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	3/700 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.042*	(e)	(e)	P=0.242
POLY 1.5	P=0.041*	(e)	(e)	P=0.241
POLY 6	P=0.042*	(e)	(e)	P=0.242
COCH-ARM / FISHERS	P=0.042*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.039*	(e)	(e)	P=0.081
HISTCONT SAME RTE	P=0.037*	(e)	(e)	P=0.078
HISTCONT ALL RTES	P=0.008**	(e)	(e)	P=0.004**
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=0.465			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.42	0/45.33	0/44.69	0/45.40
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/38 (0%)	0/39 (0%)	0/37 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	0/700 (0%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.42	0/45.33	0/44.69	0/45.40
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/38 (0%)	0/39 (0%)	0/37 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	0/700 (0%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/49 (0%)	0/48 (0%)	0/48 (0%)
POLY-3 RATE (b)	1/44.42	0/44.54	0/42.83	0/43.64
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	1/38 (3%)	0/39 (0%)	0/36 (0%)	0/36 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
HC TUMORS SAME ROUTE	0/146 (0%)			
HC TUMORS ALL ROUTES	1/687 (0%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/48 (0%)	0/48 (0%)
POLY-3 RATE (b)	0/44.42	0/44.54	0/42.83	0/43.64
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/38 (0%)	0/39 (0%)	0/36 (0%)	0/36 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/146 (0%)			
HC TUMORS ALL ROUTES	0/687 (0%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/49 (0%)	0/48 (0%)	0/48 (0%)
POLY-3 RATE (b)	1/44.42	0/44.54	0/42.83	0/43.64
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	1/38 (3%)	0/39 (0%)	0/36 (0%)	0/36 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
HC TUMORS SAME ROUTE	0/146 (0%)			
HC TUMORS ALL ROUTES	1/687 (0%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/44.42	0/45.33	0/44.69	1/45.40
POLY-3 PERCENT (g)	2.3%	0%	0%	2.2%
TERMINAL (d)	1/38 (3%)	0/39 (0%)	0/37 (0%)	1/37 (3%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	6/700 (1%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/44.42	0/45.33	0/44.69	1/45.40
POLY-3 PERCENT (g)	2.3%	0%	0%	2.2%
TERMINAL (d)	1/38 (3%)	0/39 (0%)	0/37 (0%)	1/37 (3%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	6/700 (1%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.42	0/45.33	0/44.69	0/45.40
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/38 (0%)	0/39 (0%)	0/37 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	0/700 (0%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Schwannoma Malignant				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.42	0/45.33	0/44.69	0/45.40
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/38 (0%)	0/39 (0%)	0/37 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	0/700 (0%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Spleen Hemangiosarcoma				
TUMOR RATES				
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.13	0/45.33	0/43.83	0/45.40
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/38 (0%)	0/39 (0%)	0/37 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	5/150 (3%)			
HC TUMORS ALL ROUTES	23/693 (3%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Hemangioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/44.42	0/45.33	1/44.69	1/45.40
POLY-3 PERCENT (g)	0%	0%	2.2%	2.2%
TERMINAL (d)	0/38 (0%)	0/39 (0%)	1/37 (3%)	1/37 (3%)
FIRST INCIDENCE	---	---	729 (T)	729 (T)
HC TUMORS SAME ROUTE	2/150 (1%)			
HC TUMORS ALL ROUTES	10/700 (1%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	0/44.42	1/45.64	3/44.69	2/45.40
POLY-3 PERCENT (g)	0%	2.2%	6.7%	4.4%
TERMINAL (d)	0/38 (0%)	0/39 (0%)	3/37 (8%)	2/37 (5%)
FIRST INCIDENCE	---	644	729 (T)	729 (T)
HC TUMORS SAME ROUTE	10/150 (7%)			
HC TUMORS ALL ROUTES	66/700 (9%)			
STATISTICAL TESTS				
POLY 3	P=0.282	P=0.505	P=0.120	P=0.242
POLY 1.5	P=0.280	P=0.504	P=0.118	P=0.241
POLY 6	P=0.281	P=0.506	P=0.120	P=0.242
COCH-ARM / FISHERS	P=0.276	P=0.500	P=0.121	P=0.247
MAX-ISO-POLY-3	P=0.119	P=0.165	P=0.039*	P=0.081
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.134			
CURR VS HC ALL RTES	P=0.018*			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Hemangiosarcoma or Hemangioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	0/44.42	1/45.64	4/44.69	3/45.40
POLY-3 PERCENT (g)	0%	2.2%	9%	6.6%
TERMINAL (d)	0/38 (0%)	0/39 (0%)	4/37 (11%)	3/37 (8%)
FIRST INCIDENCE	---	644	729 (T)	729 (T)
HC TUMORS SAME ROUTE	12/150 (8%)			
HC TUMORS ALL ROUTES	76/700 (11%)			
STATISTICAL TESTS				
POLY 3	P=0.144	P=0.505	P=0.061	P=0.123
POLY 1.5	P=0.143	P=0.504	P=0.060	P=0.122
POLY 6	P=0.143	P=0.506	P=0.061	P=0.122
COCH-ARM / FISHERS	P=0.141	P=0.500	P=0.059	P=0.121
MAX-ISO-POLY-3	P=0.062	P=0.165	P=0.020*	P=0.041*
HISTCONT SAME RTE	P=0.707	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.064			
CURR VS HC ALL RTES	P=0.011*			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Histiocytic Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/44.42	1/45.60	1/44.69	1/45.40
POLY-3 PERCENT (g)	0%	2.2%	2.2%	2.2%
TERMINAL (d)	0/38 (0%)	0/39 (0%)	1/37 (3%)	1/37 (3%)
FIRST INCIDENCE	---	656	729 (T)	729 (T)
HC TUMORS SAME ROUTE	4/150 (3%)			
HC TUMORS ALL ROUTES	9/700 (1%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type				
TUMOR RATES	#	#	#	#
OVERALL (a)	6/50 (12%)	2/50 (4%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	6/44.81	2/46.04	3/45.26	2/45.40
POLY-3 PERCENT (g)	13.4%	4.3%	6.6%	4.4%
TERMINAL (d)	5/38 (13%)	1/39 (3%)	2/37 (5%)	2/37 (5%)
FIRST INCIDENCE	619	481	549	729 (T)
HC TUMORS SAME ROUTE	9/150 (6%)			
HC TUMORS ALL ROUTES	35/700 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.211N	P=0.124N	P=0.237N	P=0.128N
POLY 1.5	P=0.210N	P=0.127N	P=0.242N	P=0.129N
POLY 6	P=0.213N	P=0.124N	P=0.233N	P=0.129N
COCH-ARM / FISHERS	P=0.210N	P=0.134N	P=0.243N	P=0.134N
MAX-ISO-POLY-3	P=0.081N	P=0.066N	P=0.144N	P=0.067N
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=1.000	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.117			
CURR VS HC ALL RTES	P=0.040*			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	32/50 (64%)	34/50 (68%)	31/50 (62%)	41/50 (82%)
POLY-3 RATE (b)	32/47.09	34/46.93	31/47.19	41/48.13
POLY-3 PERCENT (g)	68%	72.5%	65.7%	85.2%
TERMINAL (d)	26/38 (68%)	29/39 (74%)	25/37 (68%)	31/37 (84%)
FIRST INCIDENCE	414	621	344	537
HC TUMORS SAME ROUTE	117/150 (78%)			
HC TUMORS ALL ROUTES	527/700 (75%)			
STATISTICAL TESTS				
POLY 3	P=0.025*	P=0.399	P=0.494N	P=0.034*
POLY 1.5	P=0.024*	P=0.410	P=0.507N	P=0.033*
POLY 6	P=0.028*	P=0.380	P=0.497N	P=0.038*
COCH-ARM / FISHERS	P=0.024*	P=0.417	P=0.500N	P=0.035*
MAX-ISO-POLY-3	P=0.040*	P=0.313	P=0.404N	P=0.020*
HISTCONT SAME RTE	P=0.323	P=1.000	P=1.000	P=0.319
HISTCONT ALL RTES	P=0.394	P=1.000	P=1.000	P=0.261
CURR VS HC SAME RTE	P=0.123			
CURR VS HC ALL RTES	P=0.021*			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	32/50 (64%)	32/50 (64%)	30/50 (60%)	36/50 (72%)
POLY-3 RATE (b)	32/48.85	32/48.40	30/47.84	36/49.69
POLY-3 PERCENT (g)	65.5%	66.1%	62.7%	72.5%
TERMINAL (d)	22/38 (58%)	24/39 (62%)	21/37 (57%)	24/37 (65%)
FIRST INCIDENCE	414	481	533	424
HC TUMORS SAME ROUTE	99/150 (66%)			
HC TUMORS ALL ROUTES	435/700 (62%)			
STATISTICAL TESTS				
POLY 3	P=0.233	P=0.560	P=0.470N	P=0.300
POLY 1.5	P=0.218	P=0.573	P=0.470N	P=0.288
POLY 6	P=0.245	P=0.540	P=0.469N	P=0.305
COCH-ARM / FISHERS	P=0.187	P=0.582N	P=0.418N	P=0.260
MAX-ISO-POLY-3	P=0.342	P=0.474	P=0.387N	P=0.231
HISTCONT SAME RTE	P=0.437	P=1.000	P=1.000	P=0.339
HISTCONT ALL RTES	P=0.361	P=1.000	P=1.000	P=0.192
CURR VS HC SAME RTE	P=0.875			
CURR VS HC ALL RTES	P=0.979			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	42/50 (84%)	42/50 (84%)	42/50 (84%)	48/50 (96%)
POLY-3 RATE (b)	42/48.85	42/48.78	42/48.88	48/50.00
POLY-3 PERCENT (g)	86%	86.1%	85.9%	96%
TERMINAL (d)	32/38 (84%)	33/39 (85%)	31/37 (84%)	35/37 (95%)
FIRST INCIDENCE	414	481	344	424
HC TUMORS SAME ROUTE	140/150 (93%)			
HC TUMORS ALL ROUTES	649/700 (93%)			
STATISTICAL TESTS				
POLY 3	P=0.047*	P=0.610	P=0.612N	P=0.077
POLY 1.5	P=0.038*	P=0.612N	P=0.589	P=0.064
POLY 6	P=0.058	P=0.600	P=0.591N	P=0.092
COCH-ARM / FISHERS	P=0.028*	P=0.607N	P=0.607N	P=0.046*
MAX-ISO-POLY-3	P=0.075	P=0.493	P=0.496N	P=0.039*
HISTCONT SAME RTE	P=0.335	P=1.000	P=1.000	P=0.405
HISTCONT ALL RTES	P=0.519	P=1.000	P=1.000	P=0.451
CURR VS HC SAME RTE	P=0.131			
CURR VS HC ALL RTES	P=0.013*			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex				
Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.88	0/44.68	0/45.72	1/43.24
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/35 (0%)	0/36 (0%)	0/36 (0%)	1/30 (3%)
FIRST INCIDENCE	---	---	---	731 (T)
HC TUMORS SAME ROUTE	1/149 (1%)			
HC TUMORS ALL ROUTES	4/695 (1%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Medulla				
Pheochromocytoma Benign				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/43.92	1/45.01	1/45.72	0/43.24
POLY-3 PERCENT (g)	4.6%	2.2%	2.2%	0%
TERMINAL (d)	1/35 (3%)	0/36 (0%)	1/36 (3%)	0/30 (0%)
FIRST INCIDENCE	721	640	731 (T)	---
HC TUMORS SAME ROUTE	3/149 (2%)			
HC TUMORS ALL ROUTES	9/695 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.207N	P=0.491N	P=0.486N	P=0.240N
POLY 1.5	P=0.205N	P=0.495N	P=0.493N	P=0.240N
POLY 6	P=0.210N	P=0.486N	P=0.477N	P=0.242N
COCH-ARM / FISHERS	P=0.200N	P=0.500N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.130N	P=0.276N	P=0.272N	P=0.079N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=0.776	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.398			
CURR VS HC ALL RTES	P=0.120			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/43.92	2/45.51	1/45.72	0/43.24
POLY-3 PERCENT (g)	4.6%	4.4%	2.2%	0%
TERMINAL (d)	1/35 (3%)	0/36 (0%)	1/36 (3%)	0/30 (0%)
FIRST INCIDENCE	721	580	731 (T)	---
HC TUMORS SAME ROUTE	4/149 (3%)			
HC TUMORS ALL ROUTES	12/695 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.153N	P=0.681N	P=0.486N	P=0.240N
POLY 1.5	P=0.152N	P=0.686N	P=0.493N	P=0.240N
POLY 6	P=0.156N	P=0.674N	P=0.477N	P=0.242N
COCH-ARM / FISHERS	P=0.147N	P=0.691N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.169N	P=0.485N	P=0.272N	P=0.079N
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.717	P=0.190	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.626			
CURR VS HC ALL RTES	P=0.251			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Harderian Gland Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	5/50 (10%)	4/50 (8%)
POLY-3 RATE (b)	1/44.06	1/44.68	5/45.78	4/43.62
POLY-3 PERCENT (g)	2.3%	2.2%	10.9%	9.2%
TERMINAL (d)	0/35 (0%)	1/36 (3%)	4/36 (11%)	2/30 (7%)
FIRST INCIDENCE	683	731 (T)	716	645
HC TUMORS SAME ROUTE	6/150 (4%)			
HC TUMORS ALL ROUTES	46/700 (7%)			
STATISTICAL TESTS				
POLY 3	P=0.122	P=0.758N	P=0.110	P=0.175
POLY 1.5	P=0.123	P=0.759N	P=0.106	P=0.175
POLY 6	P=0.120	P=0.756N	P=0.116	P=0.174
COCH-ARM / FISHERS	P=0.130	P=0.753N	P=0.102	P=0.181
MAX-ISO-POLY-3	P=0.106	P=0.495N	P=0.052	P=0.082
HISTCONT SAME RTE	P=0.145	P=1.000	P=0.076	P=0.134
HISTCONT ALL RTES	P=0.488	P=1.000	P=0.261	P=0.439
CURR VS HC SAME RTE	P=0.507			
CURR VS HC ALL RTES	P=0.215			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Harderian Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	2/50 (4%)	2/50 (4%)	5/50 (10%)
POLY-3 RATE (b)	3/43.88	2/44.68	2/45.72	5/43.56
POLY-3 PERCENT (g)	6.8%	4.5%	4.4%	11.5%
TERMINAL (d)	3/35 (9%)	2/36 (6%)	2/36 (6%)	3/30 (10%)
FIRST INCIDENCE	731 (T)	731 (T)	731 (T)	661
HC TUMORS SAME ROUTE	3/150 (2%)			
HC TUMORS ALL ROUTES	14/700 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.163	P=0.492N	P=0.481N	P=0.352
POLY 1.5	P=0.165	P=0.495N	P=0.491N	P=0.351
POLY 6	P=0.160	P=0.487N	P=0.469N	P=0.352
COCH-ARM / FISHERS	P=0.170	P=0.500N	P=0.500N	P=0.357
MAX-ISO-POLY-3	P=0.203	P=0.318N	P=0.311N	P=0.228
HISTCONT SAME RTE	P=0.055	P=0.410	P=0.417	P=0.072
HISTCONT ALL RTES	P=0.002**	P=0.279	P=0.290	P<0.001**
CURR VS HC SAME RTE	P=0.264			
CURR VS HC ALL RTES	P=0.062			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Harderian Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	3/50 (6%)	7/50 (14%)	9/50 (18%)
POLY-3 RATE (b)	4/44.06	3/44.68	7/45.78	9/43.94
POLY-3 PERCENT (g)	9.1%	6.7%	15.3%	20.5%
TERMINAL (d)	3/35 (9%)	3/36 (8%)	6/36 (17%)	5/30 (17%)
FIRST INCIDENCE	683	731 (T)	716	645
HC TUMORS SAME ROUTE	9/150 (6%)			
HC TUMORS ALL ROUTES	60/700 (9%)			
STATISTICAL TESTS				
POLY 3	P=0.039*	P=0.492N	P=0.283	P=0.112
POLY 1.5	P=0.040*	P=0.495N	P=0.272	P=0.112
POLY 6	P=0.039*	P=0.489N	P=0.297	P=0.112
COCH-ARM / FISHERS	P=0.044*	P=0.500N	P=0.262	P=0.117
MAX-ISO-POLY-3	P=0.063	P=0.341N	P=0.190	P=0.065
HISTCONT SAME RTE	P=0.024*	P=1.000	P=0.054	P=0.033*
HISTCONT ALL RTES	P=0.021*	P=1.000	P=0.122	P=0.014*
CURR VS HC SAME RTE	P=0.606			
CURR VS HC ALL RTES	P=0.911			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Intestine Small: Duodenum Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.88	0/44.68	0/45.72	0/43.24
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/35 (0%)	0/36 (0%)	0/36 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	3/700 (0%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Intestine Small: Site Unspecified Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.88	0/44.68	0/45.72	0/43.24
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/35 (0%)	0/36 (0%)	0/36 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	2/150 (1%)			
HC TUMORS ALL ROUTES	5/700 (1%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Hepatoblastoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.88	0/44.68	0/45.72	0/43.24
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	1/35 (3%)	0/36 (0%)	0/36 (0%)	0/30 (0%)
FIRST INCIDENCE	731 (T)	---	---	---
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	4/698 (1%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Hepatocellular Adenoma				
TUMOR RATES				
OVERALL (a)	9/50 (18%)	15/50 (30%)	10/50 (20%)	15/50 (30%)
POLY-3 RATE (b)	9/43.92	15/44.72	10/46.30	15/44.41
POLY-3 PERCENT (g)	20.5%	33.5%	21.6%	33.8%
TERMINAL (d)	8/35 (23%)	14/36 (39%)	8/36 (22%)	10/30 (33%)
FIRST INCIDENCE	721	721	649	572
HC TUMORS SAME ROUTE	58/150 (39%)			
HC TUMORS ALL ROUTES	272/698 (39%)			
STATISTICAL TESTS				
POLY 3	P=0.197	P=0.124	P=0.551	P=0.120
POLY 1.5	P=0.193	P=0.122	P=0.525	P=0.116
POLY 6	P=0.200	P=0.127	P=0.587	P=0.124
COCH-ARM / FISHERS	P=0.202	P=0.121	P=0.500	P=0.121
MAX-ISO-POLY-3	P=0.131	P=0.083	P=0.449	P=0.079
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.033*			
CURR VS HC ALL RTES	P=0.011*			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Metal Working Fluids: Trim VX

CAS Number: TRIMVX

Date Report Requested: 02/02/2015

Time Report Requested: 13:50:12

First Dose M/F: 08/03/09 / 08/03/09

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Hepatocellular Carcinoma				
TUMOR RATES				
OVERALL (a)	7/50 (14%)	5/50 (10%)	7/50 (14%)	12/50 (24%)
POLY-3 RATE (b)	7/44.23	5/45.13	7/46.13	12/44.90
POLY-3 PERCENT (g)	15.8%	11.1%	15.2%	26.7%
TERMINAL (d)	5/35 (14%)	3/36 (8%)	4/36 (11%)	4/30 (13%)
FIRST INCIDENCE	645	607	649	557
HC TUMORS SAME ROUTE	28/150 (19%)			
HC TUMORS ALL ROUTES	112/698 (16%)			
STATISTICAL TESTS				
POLY 3	P=0.042*	P=0.364N	P=0.581N	P=0.158
POLY 1.5	P=0.042*	P=0.371N	P=0.597N	P=0.152
POLY 6	P=0.044*	P=0.357N	P=0.559N	P=0.166
COCH-ARM / FISHERS	P=0.044*	P=0.380N	P=0.613N	P=0.154
MAX-ISO-POLY-3	P=0.068	P=0.258N	P=0.466N	P=0.105
HISTCONT SAME RTE	P=0.155	P=1.000	P=1.000	P=0.088
HISTCONT ALL RTES	P=0.265	P=1.000	P=1.000	P=0.123
CURR VS HC SAME RTE	P=0.431			
CURR VS HC ALL RTES	P=0.751			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Hepatocellular Carcinoma or Hepatoblastoma				
TUMOR RATES				
OVERALL (a)	7/50 (14%)	5/50 (10%)	7/50 (14%)	12/50 (24%)
POLY-3 RATE (b)	7/44.23	5/45.13	7/46.13	12/44.90
POLY-3 PERCENT (g)	15.8%	11.1%	15.2%	26.7%
TERMINAL (d)	5/35 (14%)	3/36 (8%)	4/36 (11%)	4/30 (13%)
FIRST INCIDENCE	645	607	649	557
HC TUMORS SAME ROUTE	28/150 (19%)			
HC TUMORS ALL ROUTES	115/698 (17%)			
STATISTICAL TESTS				
POLY 3	P=0.042*	P=0.364N	P=0.581N	P=0.158
POLY 1.5	P=0.042*	P=0.371N	P=0.597N	P=0.152
POLY 6	P=0.044*	P=0.357N	P=0.559N	P=0.166
COCH-ARM / FISHERS	P=0.044*	P=0.380N	P=0.613N	P=0.154
MAX-ISO-POLY-3	P=0.068	P=0.258N	P=0.466N	P=0.105
HISTCONT SAME RTE	P=0.155	P=1.000	P=1.000	P=0.088
HISTCONT ALL RTES	P=0.305	P=1.000	P=1.000	P=0.152
CURR VS HC SAME RTE	P=0.431			
CURR VS HC ALL RTES	P=0.699			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Hepatocellular Carcinoma or Hepatocellular Adenoma				
TUMOR RATES				
OVERALL (a)	15/50 (30%)	19/50 (38%)	15/50 (30%)	24/50 (48%)
POLY-3 RATE (b)	15/44.23	19/45.17	15/46.41	24/45.88
POLY-3 PERCENT (g)	33.9%	42.1%	32.3%	52.3%
TERMINAL (d)	13/35 (37%)	16/36 (44%)	11/36 (31%)	13/30 (43%)
FIRST INCIDENCE	645	607	649	557
HC TUMORS SAME ROUTE	73/150 (49%)			
HC TUMORS ALL ROUTES	320/698 (46%)			
STATISTICAL TESTS				
POLY 3	P=0.049*	P=0.281	P=0.525N	P=0.056
POLY 1.5	P=0.044*	P=0.273	P=0.557N	P=0.049*
POLY 6	P=0.058	P=0.291	P=0.481N	P=0.069
COCH-ARM / FISHERS	P=0.046*	P=0.263	P=0.586N	P=0.050*
MAX-ISO-POLY-3	P=0.062	P=0.214	P=0.435N	P=0.038*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=0.691	P=1.000	P=1.000	P=0.469
CURR VS HC SAME RTE	P=0.044*			
CURR VS HC ALL RTES	P=0.064			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma				
TUMOR RATES				
OVERALL (a)	15/50 (30%)	19/50 (38%)	15/50 (30%)	24/50 (48%)
POLY-3 RATE (b)	15/44.23	19/45.17	15/46.41	24/45.88
POLY-3 PERCENT (g)	33.9%	42.1%	32.3%	52.3%
TERMINAL (d)	13/35 (37%)	16/36 (44%)	11/36 (31%)	13/30 (43%)
FIRST INCIDENCE	645	607	649	557
HC TUMORS SAME ROUTE	73/150 (49%)			
HC TUMORS ALL ROUTES	320/698 (46%)			
STATISTICAL TESTS				
POLY 3	P=0.049*	P=0.281	P=0.525N	P=0.056
POLY 1.5	P=0.044*	P=0.273	P=0.557N	P=0.049*
POLY 6	P=0.058	P=0.291	P=0.481N	P=0.069
COCH-ARM / FISHERS	P=0.046*	P=0.263	P=0.586N	P=0.050*
MAX-ISO-POLY-3	P=0.062	P=0.214	P=0.435N	P=0.038*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=0.691	P=1.000	P=1.000	P=0.469
CURR VS HC SAME RTE	P=0.044*			
CURR VS HC ALL RTES	P=0.064			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	4/50 (8%)	5/50 (10%)	3/50 (6%)	8/50 (16%)
POLY-3 RATE (b)	4/44.54	5/44.68	3/45.72	8/43.73
POLY-3 PERCENT (g)	9%	11.2%	6.6%	18.3%
TERMINAL (d)	2/35 (6%)	5/36 (14%)	3/36 (8%)	5/30 (17%)
FIRST INCIDENCE	575	731 (T)	731 (T)	668
HC TUMORS SAME ROUTE	7/149 (5%)			
HC TUMORS ALL ROUTES	36/699 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.100	P=0.502	P=0.486N	P=0.166
POLY 1.5	P=0.102	P=0.502	P=0.494N	P=0.169
POLY 6	P=0.097	P=0.502	P=0.476N	P=0.162
COCH-ARM / FISHERS	P=0.109	P=0.500	P=0.500N	P=0.178
MAX-ISO-POLY-3	P=0.135	P=0.364	P=0.336N	P=0.102
HISTCONT SAME RTE	P=0.038*	P=0.102	P=1.000	P=0.037*
HISTCONT ALL RTES	P=0.004**	P=0.063	P=1.000	P<0.001**
CURR VS HC SAME RTE	P=0.368			
CURR VS HC ALL RTES	P=0.387			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung				
Alveolar/Bronchiolar Carcinoma				
TUMOR RATES				
OVERALL (a)	5/50 (10%)	3/50 (6%)	6/50 (12%)	14/50 (28%)
POLY-3 RATE (b)	5/43.88	3/44.98	6/45.72	14/44.55
POLY-3 PERCENT (g)	11.4%	6.7%	13.1%	31.4%
TERMINAL (d)	5/35 (14%)	2/36 (6%)	6/36 (17%)	8/30 (27%)
FIRST INCIDENCE	731 (T)	647	731 (T)	513
HC TUMORS SAME ROUTE	10/149 (7%)			
HC TUMORS ALL ROUTES	30/699 (4%)			
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.342N	P=0.529	P=0.018*
POLY 1.5	P<0.001**	P=0.349N	P=0.514	P=0.018*
POLY 6	P<0.001**	P=0.334N	P=0.548	P=0.019*
COCH-ARM / FISHERS	P<0.001**	P=0.357N	P=0.500	P=0.020*
MAX-ISO-POLY-3	P<0.001**	P=0.223N	P=0.402	P=0.010**
HISTCONT SAME RTE	P=0.014*	P=1.000	P=0.171	P=0.024*
HISTCONT ALL RTES	P<0.001**	P=0.413	P=0.019*	P<0.001**
CURR VS HC SAME RTE	P=0.460			
CURR VS HC ALL RTES	P=0.062			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	9/50 (18%)	8/50 (16%)	8/50 (16%)	20/50 (40%)
POLY-3 RATE (b)	9/44.54	8/44.98	8/45.72	20/44.98
POLY-3 PERCENT (g)	20.2%	17.8%	17.5%	44.5%
TERMINAL (d)	7/35 (20%)	7/36 (19%)	8/36 (22%)	12/30 (40%)
FIRST INCIDENCE	575	647	731 (T)	513
HC TUMORS SAME ROUTE	16/149 (11%)			
HC TUMORS ALL ROUTES	64/699 (9%)			
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.491N	P=0.476N	P=0.011*
POLY 1.5	P<0.001**	P=0.495N	P=0.489N	P=0.010**
POLY 6	P<0.001**	P=0.486N	P=0.460N	P=0.011*
COCH-ARM / FISHERS	P<0.001**	P=0.500N	P=0.500N	P=0.013*
MAX-ISO-POLY-3	P<0.001**	P=0.384N	P=0.372N	P=0.006**
HISTCONT SAME RTE	P=0.012*	P=0.187	P=0.197	P=0.019*
HISTCONT ALL RTES	P<0.001**	P=0.076	P=0.081	P<0.001**
CURR VS HC SAME RTE	P=0.186			
CURR VS HC ALL RTES	P=0.040*			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lymph Node, Mesenteric Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.88	0/44.68	0/45.72	0/43.24
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/35 (0%)	0/36 (0%)	0/36 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	0/700 (0%)			
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/43.88	2/45.01	2/45.97	0/43.24
POLY-3 PERCENT (g)	0%	4.4%	4.4%	0%
TERMINAL (d)	0/35 (0%)	1/36 (3%)	0/36 (0%)	0/30 (0%)
FIRST INCIDENCE	---	640	675	---
HC TUMORS SAME ROUTE	4/150 (3%)			
HC TUMORS ALL ROUTES	8/700 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.380N	P=0.243	P=0.248	(e)
POLY 1.5	P=0.379N	P=0.240	P=0.242	(e)
POLY 6	P=0.383N	P=0.246	P=0.255	(e)
COCH-ARM / FISHERS	P=0.373N	P=0.247	P=0.247	(e)
MAX-ISO-POLY-3	P=0.290	P=0.081	P=0.086	(e)
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000	(e)
HISTCONT ALL RTES	P=0.327	P=0.052	P=0.054	(e)
CURR VS HC SAME RTE	P=0.182			
CURR VS HC ALL RTES	P=0.460			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/43.88	2/45.01	2/45.97	0/43.24
POLY-3 PERCENT (g)	0%	4.4%	4.4%	0%
TERMINAL (d)	0/35 (0%)	1/36 (3%)	0/36 (0%)	0/30 (0%)
FIRST INCIDENCE	---	640	675	---
HC TUMORS SAME ROUTE	4/150 (3%)			
HC TUMORS ALL ROUTES	8/700 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.380N	P=0.243	P=0.248	(e)
POLY 1.5	P=0.379N	P=0.240	P=0.242	(e)
POLY 6	P=0.383N	P=0.246	P=0.255	(e)
COCH-ARM / FISHERS	P=0.373N	P=0.247	P=0.247	(e)
MAX-ISO-POLY-3	P=0.290	P=0.081	P=0.086	(e)
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000	(e)
HISTCONT ALL RTES	P=0.327	P=0.052	P=0.054	(e)
CURR VS HC SAME RTE	P=0.182			
CURR VS HC ALL RTES	P=0.460			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Ovary				
Cystadenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	4/49 (8%)	2/49 (4%)	3/50 (6%)
POLY-3 RATE (b)	1/43.88	4/43.68	2/44.83	3/43.24
POLY-3 PERCENT (g)	2.3%	9.2%	4.5%	6.9%
TERMINAL (d)	1/35 (3%)	4/35 (11%)	1/36 (3%)	3/30 (10%)
FIRST INCIDENCE	731 (T)	731 (T)	725	731 (T)
HC TUMORS SAME ROUTE	4/148 (3%)			
HC TUMORS ALL ROUTES	27/691 (4%)			
STATISTICAL TESTS				
POLY 3	P=0.446	P=0.177	P=0.507	P=0.300
POLY 1.5	P=0.448	P=0.175	P=0.500	P=0.300
POLY 6	P=0.440	P=0.179	P=0.518	P=0.297
COCH-ARM / FISHERS	P=0.457	P=0.175	P=0.492	P=0.309
MAX-ISO-POLY-3	P=0.291	P=0.083	P=0.290	P=0.151
HISTCONT SAME RTE	P=0.201	P=0.065	P=1.000	P=0.130
HISTCONT ALL RTES	P=0.340	P=0.047*	P=1.000	P=0.256
CURR VS HC SAME RTE	P=0.796			
CURR VS HC ALL RTES	P=0.508			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
OVERALL (a)	8/48 (17%)	6/49 (12%)	7/49 (14%)	6/49 (12%)
POLY-3 RATE (b)	8/42.89	6/44.86	7/44.84	6/42.80
POLY-3 PERCENT (g)	18.7%	13.4%	15.6%	14%
TERMINAL (d)	6/35 (17%)	5/36 (14%)	6/36 (17%)	5/29 (17%)
FIRST INCIDENCE	647	647	722	557
HC TUMORS SAME ROUTE	16/147 (11%)			
HC TUMORS ALL ROUTES	48/692 (7%)			
STATISTICAL TESTS				
POLY 3	P=0.437N	P=0.351N	P=0.463N	P=0.387N
POLY 1.5	P=0.429N	P=0.357N	P=0.474N	P=0.383N
POLY 6	P=0.453N	P=0.349N	P=0.451N	P=0.400N
COCH-ARM / FISHERS	P=0.406N	P=0.371N	P=0.482N	P=0.371N
MAX-ISO-POLY-3	P=0.451N	P=0.255N	P=0.355N	P=0.283N
HISTCONT SAME RTE	P=0.487	P=1.000	P=0.341	P=0.478
HISTCONT ALL RTES	P=0.104	P=0.136	P=0.054	P=0.117
CURR VS HC SAME RTE	P=0.322			
CURR VS HC ALL RTES	P=0.016*			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma				
TUMOR RATES				
OVERALL (a)	3/48 (6%)	0/49 (0%)	0/49 (0%)	2/49 (4%)
POLY-3 RATE (b)	3/43.18	0/44.55	0/44.80	2/42.24
POLY-3 PERCENT (g)	7%	0%	0%	4.7%
TERMINAL (d)	2/35 (6%)	0/36 (0%)	0/36 (0%)	2/29 (7%)
FIRST INCIDENCE	522	---	---	731 (T)
HC TUMORS SAME ROUTE	0/147 (0%)			
HC TUMORS ALL ROUTES	0/692 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.536	P=0.113N	P=0.112N	P=0.510N
POLY 1.5	P=0.540	P=0.113N	P=0.114N	P=0.504N
POLY 6	P=0.531	P=0.113N	P=0.109N	P=0.521N
COCH-ARM / FISHERS	P=0.551	P=0.117N	P=0.117N	P=0.490N
MAX-ISO-POLY-3	P=0.113N	P=0.037N*	P=0.037N*	P=0.335N
HISTCONT SAME RTE	P=0.040*	(e)	(e)	P=0.078
HISTCONT ALL RTEs	P<0.001**	(e)	(e)	P<0.001**
CURR VS HC SAME RTE	P=0.003**			
CURR VS HC ALL RTEs	P<0.001**			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	11/48 (23%)	6/49 (12%)	7/49 (14%)	8/49 (16%)
POLY-3 RATE (b)	11/43.53	6/44.86	7/44.84	8/42.80
POLY-3 PERCENT (g)	25.3%	13.4%	15.6%	18.7%
TERMINAL (d)	8/35 (23%)	5/36 (14%)	6/36 (17%)	7/29 (24%)
FIRST INCIDENCE	522	647	722	557
HC TUMORS SAME ROUTE	16/147 (11%)			
HC TUMORS ALL ROUTES	48/692 (7%)			
STATISTICAL TESTS				
POLY 3	P=0.499N	P=0.124N	P=0.194N	P=0.316N
POLY 1.5	P=0.487N	P=0.126N	P=0.200N	P=0.308N
POLY 6	P=0.518N	P=0.125N	P=0.187N	P=0.335N
COCH-ARM / FISHERS	P=0.459N	P=0.132N	P=0.203N	P=0.287N
MAX-ISO-POLY-3	P=0.216N	P=0.079N	P=0.132N	P=0.234N
HISTCONT SAME RTE	P=0.180	P=1.000	P=0.341	P=0.182
HISTCONT ALL RTES	P=0.020*	P=0.136	P=0.054	P=0.016*
CURR VS HC SAME RTE	P=0.054			
CURR VS HC ALL RTES	P<0.001**			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/43.88	1/44.68	0/45.72	2/43.58
POLY-3 PERCENT (g)	0%	2.2%	0%	4.6%
TERMINAL (d)	0/35 (0%)	1/36 (3%)	0/36 (0%)	1/30 (3%)
FIRST INCIDENCE	---	731 (T)	---	635
HC TUMORS SAME ROUTE	4/150 (3%)			
HC TUMORS ALL ROUTES	23/700 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.147	P=0.504	(e)	P=0.235
POLY 1.5	P=0.147	P=0.502	(e)	P=0.235
POLY 6	P=0.146	P=0.506	(e)	P=0.235
COCH-ARM / FISHERS	P=0.149	P=0.500	(e)	P=0.247
MAX-ISO-POLY-3	P=0.080	P=0.163	(e)	P=0.076
HISTCONT SAME RTE	P=0.336	P=1.000	(e)	P=0.485
HISTCONT ALL RTES	P=0.582	P=1.000	(e)	P=1.000
CURR VS HC SAME RTE	P=0.254			
CURR VS HC ALL RTES	P=0.206			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/43.88	1/44.68	0/45.72	2/43.58
POLY-3 PERCENT (g)	0%	2.2%	0%	4.6%
TERMINAL (d)	0/35 (0%)	1/36 (3%)	0/36 (0%)	1/30 (3%)
FIRST INCIDENCE	---	731 (T)	---	635
HC TUMORS SAME ROUTE	4/150 (3%)			
HC TUMORS ALL ROUTES	23/700 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.147	P=0.504	(e)	P=0.235
POLY 1.5	P=0.147	P=0.502	(e)	P=0.235
POLY 6	P=0.146	P=0.506	(e)	P=0.235
COCH-ARM / FISHERS	P=0.149	P=0.500	(e)	P=0.247
MAX-ISO-POLY-3	P=0.080	P=0.163	(e)	P=0.076
HISTCONT SAME RTE	P=0.336	P=1.000	(e)	P=0.485
HISTCONT ALL RTES	P=0.582	P=1.000	(e)	P=1.000
CURR VS HC SAME RTE	P=0.254			
CURR VS HC ALL RTES	P=0.206			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/43.88	3/45.91	1/46.00	1/43.24
POLY-3 PERCENT (g)	0%	6.5%	2.2%	2.3%
TERMINAL (d)	0/35 (0%)	1/36 (3%)	0/36 (0%)	1/30 (3%)
FIRST INCIDENCE	---	479	655	731 (T)
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	5/700 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.592N	P=0.127	P=0.509	P=0.497
POLY 1.5	P=0.592N	P=0.124	P=0.505	P=0.497
POLY 6	P=0.594N	P=0.131	P=0.516	P=0.496
COCH-ARM / FISHERS	P=0.588N	P=0.121	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.248	P=0.045*	P=0.170	P=0.158
HISTCONT SAME RTE	P=0.208	P=0.046*	P=0.242	P=0.239
HISTCONT ALL RTES	P=0.222	P=0.005**	P=0.440	P=0.425
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=0.598			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Schwannoma Malignant				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.88	3/45.91	1/46.00	0/43.24
POLY-3 PERCENT (g)	0%	6.5%	2.2%	0%
TERMINAL (d)	0/35 (0%)	1/36 (3%)	0/36 (0%)	0/30 (0%)
FIRST INCIDENCE	---	479	655	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	4/700 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.278N	P=0.127	P=0.509	(e)
POLY 1.5	P=0.278N	P=0.124	P=0.505	(e)
POLY 6	P=0.278N	P=0.131	P=0.516	(e)
COCH-ARM / FISHERS	P=0.277N	P=0.121	P=0.500	(e)
MAX-ISO-POLY-3	P=0.243N	P=0.045*	P=0.170	(e)
HISTCONT SAME RTE	P=0.311	P=0.046*	P=0.242	(e)
HISTCONT ALL RTES	P=0.310	P=0.003**	P=0.393	(e)
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=0.605			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Spleen Hemangiosarcoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/49 (2%)	2/48 (4%)	0/49 (0%)
POLY-3 RATE (b)	0/43.88	1/43.72	2/44.81	0/42.30
POLY-3 PERCENT (g)	0%	2.3%	4.5%	0%
TERMINAL (d)	0/35 (0%)	1/36 (3%)	1/36 (3%)	0/30 (0%)
FIRST INCIDENCE	---	731 (T)	637	---
HC TUMORS SAME ROUTE	6/149 (4%)			
HC TUMORS ALL ROUTES	10/691 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.512N	P=0.499	P=0.242	(e)
POLY 1.5	P=0.511N	P=0.498	P=0.235	(e)
POLY 6	P=0.516N	P=0.501	P=0.251	(e)
COCH-ARM / FISHERS	P=0.505N	P=0.495	P=0.237	(e)
MAX-ISO-POLY-3	P=0.345	P=0.159	P=0.082	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(e)
HISTCONT ALL RTEs	P=0.635	P=1.000	P=0.150	(e)
CURR VS HC SAME RTE	P=0.132			
CURR VS HC ALL RTEs	P=0.406			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Uterus				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.18	2/45.01	0/45.72	0/43.24
POLY-3 PERCENT (g)	2.3%	4.4%	0%	0%
TERMINAL (d)	0/35 (0%)	1/36 (3%)	0/36 (0%)	0/30 (0%)
FIRST INCIDENCE	647	640	---	---
HC TUMORS SAME ROUTE	2/150 (1%)			
HC TUMORS ALL ROUTES	3/700 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.228N	P=0.506	P=0.493N	P=0.504N
POLY 1.5	P=0.227N	P=0.504	P=0.497N	P=0.503N
POLY 6	P=0.229N	P=0.510	P=0.489N	P=0.507N
COCH-ARM / FISHERS	P=0.224N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.187N	P=0.288	P=0.158N	P=0.164N
HISTCONT SAME RTE	P=1.000	P=0.199	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.420	P=0.004**	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.768			
CURR VS HC ALL RTES	P=0.139			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Uterus				
Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	3/50 (6%)	5/50 (10%)	1/50 (2%)
POLY-3 RATE (b)	1/43.88	3/44.72	5/45.78	1/43.24
POLY-3 PERCENT (g)	2.3%	6.7%	10.9%	2.3%
TERMINAL (d)	1/35 (3%)	2/36 (6%)	4/36 (11%)	1/30 (3%)
FIRST INCIDENCE	731 (T)	721	715	731 (T)
HC TUMORS SAME ROUTE	4/150 (3%)			
HC TUMORS ALL ROUTES	18/700 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.401N	P=0.312	P=0.111	P=0.758
POLY 1.5	P=0.399N	P=0.309	P=0.106	P=0.758
POLY 6	P=0.407N	P=0.316	P=0.118	P=0.756
COCH-ARM / FISHERS	P=0.388N	P=0.309	P=0.102	P=0.753N
MAX-ISO-POLY-3	P=0.303	P=0.161	P=0.053	P=0.495
HISTCONT SAME RTE	P=0.357	P=0.204	P=0.061	P=1.000
HISTCONT ALL RTES	P=0.282	P=0.131	P=0.005**	P=1.000
CURR VS HC SAME RTE	P=0.833			
CURR VS HC ALL RTES	P=0.818			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Hemangioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/44.10	1/44.68	0/45.72	2/43.46
POLY-3 PERCENT (g)	2.3%	2.2%	0%	4.6%
TERMINAL (d)	0/35 (0%)	1/36 (3%)	0/36 (0%)	1/30 (3%)
FIRST INCIDENCE	673	731 (T)	---	673
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	5/700 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.321	P=0.758N	P=0.493N	P=0.495
POLY 1.5	P=0.322	P=0.759N	P=0.497N	P=0.495
POLY 6	P=0.318	P=0.757N	P=0.488N	P=0.493
COCH-ARM / FISHERS	P=0.327	P=0.753N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.272	P=0.495N	P=0.158N	P=0.277
HISTCONT SAME RTE	P=0.044*	P=0.241	(e)	P=0.078
HISTCONT ALL RTES	P=0.021*	P=0.389	P=1.000	P=0.011*
CURR VS HC SAME RTE	P=0.054			
CURR VS HC ALL RTES	P=0.324			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	3/50 (6%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	2/44.18	3/45.01	3/46.12	1/43.24
POLY-3 PERCENT (g)	4.5%	6.7%	6.5%	2.3%
TERMINAL (d)	1/35 (3%)	2/36 (6%)	1/36 (3%)	1/30 (3%)
FIRST INCIDENCE	647	640	637	731 (T)
HC TUMORS SAME ROUTE	10/150 (7%)			
HC TUMORS ALL ROUTES	33/700 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.314N	P=0.508	P=0.519	P=0.508N
POLY 1.5	P=0.311N	P=0.505	P=0.509	P=0.506N
POLY 6	P=0.322N	P=0.513	P=0.532	P=0.512N
COCH-ARM / FISHERS	P=0.300N	P=0.500	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.369N	P=0.332	P=0.344	P=0.289N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=1.000	P=0.475	P=0.490	P=1.000
CURR VS HC SAME RTE	P=0.456			
CURR VS HC ALL RTES	P=0.833			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Hemangiosarcoma or Hemangioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	4/50 (8%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	3/44.40	4/45.01	3/46.12	3/43.46
POLY-3 PERCENT (g)	6.8%	8.9%	6.5%	6.9%
TERMINAL (d)	1/35 (3%)	3/36 (8%)	1/36 (3%)	2/30 (7%)
FIRST INCIDENCE	647	640	637	673
HC TUMORS SAME ROUTE	10/150 (7%)			
HC TUMORS ALL ROUTES	38/700 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.544N	P=0.507	P=0.645N	P=0.653
POLY 1.5	P=0.540N	P=0.505	P=0.654N	P=0.654
POLY 6	P=0.553N	P=0.510	P=0.634N	P=0.648
COCH-ARM / FISHERS	P=0.528N	P=0.500	P=0.661N	P=0.661N
MAX-ISO-POLY-3	P=0.651N	P=0.355	P=0.480N	P=0.488
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.622	P=0.300	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.853			
CURR VS HC ALL RTES	P=0.858			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Histiocytic Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	5/50 (10%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	4/45.04	5/44.98	3/45.72	3/43.76
POLY-3 PERCENT (g)	8.9%	11.1%	6.6%	6.9%
TERMINAL (d)	1/35 (3%)	3/36 (8%)	3/36 (8%)	0/30 (0%)
FIRST INCIDENCE	550	688	731 (T)	645
HC TUMORS SAME ROUTE	5/150 (3%)			
HC TUMORS ALL ROUTES	17/700 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.381N	P=0.499	P=0.492N	P=0.516N
POLY 1.5	P=0.376N	P=0.500	P=0.497N	P=0.512N
POLY 6	P=0.388N	P=0.499	P=0.486N	P=0.523N
COCH-ARM / FISHERS	P=0.363N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.470N	P=0.362	P=0.341N	P=0.363N
HISTCONT SAME RTE	P=0.198	P=0.051	P=0.202	P=0.183
HISTCONT ALL RTES	P=0.075	P<0.001**	P=0.047*	P=0.041*
CURR VS HC SAME RTE	P=0.137			
CURR VS HC ALL RTES	P=0.020*			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

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 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type				
TUMOR RATES	#	#	#	#
OVERALL (a)	10/50 (20%)	8/50 (16%)	14/50 (28%)	12/50 (24%)
POLY-3 RATE (b)	10/45.05	8/45.55	14/46.45	12/44.36
POLY-3 PERCENT (g)	22.2%	17.6%	30.1%	27.1%
TERMINAL (d)	7/35 (20%)	7/36 (19%)	10/36 (28%)	8/30 (27%)
FIRST INCIDENCE	575	365	619	572
HC TUMORS SAME ROUTE	46/150 (31%)			
HC TUMORS ALL ROUTES	160/700 (23%)			
STATISTICAL TESTS				
POLY 3	P=0.261	P=0.386N	P=0.266	P=0.387
POLY 1.5	P=0.265	P=0.388N	P=0.252	P=0.389
POLY 6	P=0.254	P=0.390N	P=0.285	P=0.380
COCH-ARM / FISHERS	P=0.289	P=0.398N	P=0.241	P=0.405
MAX-ISO-POLY-3	P=0.276	P=0.292N	P=0.198	P=0.298
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=0.581	P=1.000	P=0.295	P=0.466
CURR VS HC SAME RTE	P=0.109			
CURR VS HC ALL RTES	P=0.662			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
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 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	23/50 (46%)	22/50 (44%)	28/50 (56%)	30/50 (60%)
POLY-3 RATE (b)	23/45.29	22/45.35	28/46.48	30/45.80
POLY-3 PERCENT (g)	50.8%	48.5%	60.2%	65.5%
TERMINAL (d)	17/35 (49%)	19/36 (53%)	22/36 (61%)	20/30 (67%)
FIRST INCIDENCE	575	640	649	557
HC TUMORS SAME ROUTE	87/150 (58%)			
HC TUMORS ALL ROUTES	396/700 (57%)			
STATISTICAL TESTS				
POLY 3	P=0.056	P=0.497N	P=0.238	P=0.107
POLY 1.5	P=0.053	P=0.497N	P=0.220	P=0.102
POLY 6	P=0.060	P=0.502N	P=0.264	P=0.113
COCH-ARM / FISHERS	P=0.063	P=0.500N	P=0.212	P=0.115
MAX-ISO-POLY-3	P=0.090	P=0.411N	P=0.181	P=0.072
HISTCONT SAME RTE	P=0.413	P=1.000	P=1.000	P=0.401
HISTCONT ALL RTES	P=0.609	P=1.000	P=1.000	P=0.390
CURR VS HC SAME RTE	P=0.193			
CURR VS HC ALL RTES	P=0.188			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
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 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	27/50 (54%)	29/50 (58%)	32/50 (64%)	37/50 (74%)
POLY-3 RATE (b)	27/47.20	29/48.68	32/47.55	37/48.17
POLY-3 PERCENT (g)	57.2%	59.6%	67.3%	76.8%
TERMINAL (d)	18/35 (51%)	19/36 (53%)	22/36 (61%)	21/30 (70%)
FIRST INCIDENCE	522	365	619	319
HC TUMORS SAME ROUTE	94/150 (63%)			
HC TUMORS ALL ROUTES	365/700 (52%)			
STATISTICAL TESTS				
POLY 3	P=0.019*	P=0.488	P=0.209	P=0.030*
POLY 1.5	P=0.018*	P=0.467	P=0.199	P=0.027*
POLY 6	P=0.020*	P=0.505	P=0.230	P=0.033*
COCH-ARM / FISHERS	P=0.022*	P=0.420	P=0.208	P=0.030*
MAX-ISO-POLY-3	P=0.031*	P=0.406	P=0.154	P=0.019*
HISTCONT SAME RTE	P=0.046*	P=1.000	P=1.000	P=0.041*
HISTCONT ALL RTES	P=0.045*	P=0.374	P=0.153	P=0.032*
CURR VS HC SAME RTE	P=0.203			
CURR VS HC ALL RTES	P=0.806			

Experiment Number: 20523 - 04
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

Date Report Requested: 02/02/2015
 Time Report Requested: 13:50:12
 First Dose M/F: 08/03/09 / 08/03/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	38/50 (76%)	41/50 (82%)	42/50 (84%)	46/50 (92%)
POLY-3 RATE (b)	38/47.53	41/48.72	42/47.61	46/48.60
POLY-3 PERCENT (g)	80%	84.2%	88.2%	94.7%
TERMINAL (d)	27/35 (77%)	30/36 (83%)	31/36 (86%)	28/30 (93%)
FIRST INCIDENCE	522	365	619	319
HC TUMORS SAME ROUTE	126/150 (84%)			
HC TUMORS ALL ROUTES	537/700 (77%)			
STATISTICAL TESTS				
POLY 3	P=0.022*	P=0.389	P=0.198	P=0.024*
POLY 1.5	P=0.019*	P=0.368	P=0.192	P=0.020*
POLY 6	P=0.028*	P=0.393	P=0.219	P=0.031*
COCH-ARM / FISHERS	P=0.028*	P=0.312	P=0.227	P=0.027*
MAX-ISO-POLY-3	P=0.023*	P=0.292	P=0.128	P=0.012*
HISTCONT SAME RTE	P=0.123	P=1.000	P=1.000	P=0.140
HISTCONT ALL RTES	P=0.075	P=0.355	P=0.200	P=0.055
CURR VS HC SAME RTE	P=0.230			
CURR VS HC ALL RTES	P=0.984			

Experiment Number: 20523 - 04
Test Type: CHRONIC
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Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
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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.
- (h) Historical Controls statistic is not calculated when the HC Poly-3 rate is higher than the Poly-3 rates for all dose groups.
- (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 ***