

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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
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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B6C3F1 MICE MALE Control	DAY ON TEST	0729	0730	0731	0732	0733	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748	0749	0750	males (cont...)	
	ANIMAL ID	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022		0023

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder Lymphoma Malignant	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum Adenoma Lymphoma Malignant	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum Lymphoma Malignant	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver Alveolar/Bronchiolar Carcinoma, Metastatic, Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hepatocellular Adenoma						X			X	X				X	X					X				X	
Hepatocellular Adenoma, Multiple			X	X	X			X								X			X		X			X	
Hepatocellular Carcinoma			X		X							X	X	X				X		X				X	
Hepatocellular Carcinoma, Multiple					X											X			X		X			X	

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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Species/Strain: MICE/B6C3F1

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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

B6C3F1 MICE MALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	males (cont...)	
	ANIMAL ID	7	7	7	7	4	7	6	7	7	7	7	7	5	7	6	6	7	7	7	7	7	7	7	7		
Control		2	3	2	3	1	2	4	3	3	3	2	2	3	4	2	1	1	3	3	3	2	3	2	2		
		9	0	9	0	4	9	6	1	1	0	9	9	1	9	9	8	0	1	1	0	9	1	9	9		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2		
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

Lymphoma Malignant

Mesentery

Pancreas

Salivary Glands

Stomach, Forestomach

Lymphoma Malignant

Mast Cell Tumor Malignant, Metastatic, Bone Marrow

Squamous Cell Papilloma

Stomach, Glandular

Lymphoma Malignant

Tooth

CARDIOVASCULAR SYSTEM

Blood Vessel

Heart

ENDOCRINE SYSTEM

Adrenal Cortex

Adenoma

Adenoma, Multiple

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B6C3F1 MICE MALE	DAY ON TEST																									males (cont...)
	0729	0730	0731	0732	0733	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748	0749	0750	0751	0752		
Control	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
	0123	0123	0123	0123	0123	0123	0123	0123	0123	0123	0123	0123	0123	0123	0123	0123	0123	0123	0123	0123	0123	0123	0123	0123		

Mast Cell Tumor Malignant, Metastatic, Bone Marrow

Adrenal Medulla

Islets, Pancreatic

Parathyroid Gland

Pituitary Gland  
 Pars Distalis, Adenoma

Thyroid Gland

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis  
 Lymphoma Malignant

Preputial Gland

Prostate  
 Lymphoma Malignant

Seminal Vesicle  
 Lymphoma Malignant

Testes

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	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023			0024	0025	
Alveolar/Bronchiolar Carcinoma		X								X																		
Alveolar/Bronchiolar Carcinoma, Multiple									X						X													
Hepatocellular Carcinoma, Metastatic, Liver				X										X					X									
Lymphoma Malignant												X							X									
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lymphoma Malignant													X															
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
<b>SPECIAL SENSES SYSTEM</b>																												
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Adenoma																												
Carcinoma				X									X						X									
<b>URINARY SYSTEM</b>																												
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Mast Cell Tumor Malignant, Metastatic, Bone Marrow																												
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lymphoma Malignant													X															
<b>SYSTEMIC LESIONS</b>																												
Multiple Organ		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lymphoma Malignant		X											X	X														

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B6C3F1 MICE MALE Control	DAY ON TEST	0730	0739	0756	0748	0771	0777	0777	0777	0777	0765	0757	0777	0777	0777	0777	0777	0733	0777	0777	0766	0777	0777	0777	0777	* TOTALS
	ANIMAL ID	00026	00027	00028	00029	00030	00031	00032	00033	00034	00035	00036	00037	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00048	00049	

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Gallbladder Lymphoma Malignant	+	+	A	A	+	+	+	+	+	+	A	+	+	+	+	+	+	A	+	+	A	M	+	+	+	43 1
Intestine Large, Cecum	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	A	+	+	+	+	+	45
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	48
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	A	+	I	+	+	+	+	A	+	+	+	+	+	+	+	46
Intestine Small, Duodenum Adenoma Lymphoma Malignant	+	+	A	A	+	+	+	+	+	+	A	+	+	+	+	+	+	A	+	+	A	+	+	+	+	44 2 1
Intestine Small, Ileum Lymphoma Malignant	+	+	A	A	+	+	+	+	+	+	A	+	+	+	+	+	+	A	+	+	A	+	+	+	+	45 2
Intestine Small, Jejunum Lymphoma Malignant	+	+	A	A	+	+	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	45 1
Liver Alveolar/Bronchiolar Carcinoma, Metastatic, Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Hepatocellular Adenoma																										13
Hepatocellular Adenoma, Multiple			X						X		X							X								10
Hepatocellular Carcinoma																					X	X				10
Hepatocellular Carcinoma, Multiple				X	X						X	X	X	X							X			X		11

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Lab: BNW

B6C3F1 MICE MALE Control	DAY ON TEST	0730	0729	0756	0748	0771	0777	0777	0777	0765	0757	0777	0777	0777	0777	0777	0737	0777	0777	0766	0777	0777	0777	0777	* TOTALS			
	ANIMAL ID	00026	00027	00028	00029	00030	00031	00032	00033	00034	00035	00036	00037	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00048		00049		
Lymphoma Malignant																										X	1	
Mesentery																											5	
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50	
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50	
Lymphoma Malignant																											1	
Mast Cell Tumor Malignant, Metastatic, Bone Marrow		X																									1	
Squamous Cell Papilloma																											1	
Stomach, Glandular		+	+	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+		48	
Lymphoma Malignant																											1	
Tooth					+	+		+																			5	
<b>CARDIOVASCULAR SYSTEM</b>																												
Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50
<b>ENDOCRINE SYSTEM</b>																												
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50
Adenoma						X																						2
Adenoma, Multiple																												1

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B6C3F1 MICE MALE	DAY ON TEST																								* TOTALS
	0730	0739	0756	0748	0771	0777	0777	0777	0777	0765	0755	0777	0777	0777	0777	0777	0777	0733	0773	0773	0764	0773	0777	0777	
Control	ANIMAL ID																								* TOTALS
	0026	0007	0008	0009	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
Mast Cell Tumor Malignant, Metastatic, Bone Marrow	X																								1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parathyroid Gland	+	+	M	+	M	+	M	+	+	+	M	M	+	M	+	+	+	M	+	M	+	M	+	M	28
Pituitary Gland Pars Distalis, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>GENERAL BODY SYSTEM</b>																									
NONE																									
<b>GENITAL SYSTEM</b>																									
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																									1
Preputial Gland	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymphoma Malignant																									2
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymphoma Malignant																									1
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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B6C3F1 MICE MALE 10 mg/m3	DAY ON TEST	0730	0621	0730	0674	0729	0669	0779	0552	0772	0643	0773	0673	0773	0677	0748	0674	0572	0773	0677	0773	0677	0773	males (cont...)			
	ANIMAL ID	0020	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	M	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hepatocellular Adenoma	X					X						X											X	X	
Hepatocellular Adenoma, Multiple					X		X			X				X		X				X					
Hepatocellular Carcinoma			X			X	X														X	X			
Hepatocellular Carcinoma, Multiple	X			X						X															
Lymphoma Malignant																						X			
Mesentery							+					+	+									+			+
Hemangiosarcoma													X												
Hepatocellular Carcinoma, Metastatic, Liver						X																X			
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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

B6C3F1 MICE MALE 10 mg/m3	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ANIMAL ID	males (cont...)
		7	6	7	6	7	6	7	7	5	7	7	6	7	7	7	7	4	7	4	5	7	7	7	7	7		
		3	2	3	7	2	5	2	2	5	3	2	4	3	3	2	3	8	3	8	7	2	3	3	2	3	0	
		0	1	0	4	9	6	9	0	0	9	4	0	0	0	9	0	7	0	1	2	9	0	0	2	3	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	0	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	0	

Hepatocellular Carcinoma, Metastatic, Liver

X

Salivary Glands

+ +

Stomach, Forestomach

+ +

Lymphoma Malignant

X

Squamous Cell Papilloma

X

Stomach, Glandular

+ +

Tooth

+ + + + +

### CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart

+ +

Endocardium, Schwannoma Benign

### ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adenoma

X

Lymphoma Malignant

Subcapsular, Adenoma

X

Adrenal Medulla

+ +

Islets, Pancreatic

+ +

Parathyroid Gland

+ + M M + + + M + M M + M M M M + M M + M M + + +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE MALE<br>10 mg/m3 | DAY ON TEST | 0730 | 0621 | 0730 | 0674 | 0729 | 0669 | 0729 | 0570 | 0770 | 0674 | 0774 | 0677 | 0777 | 0677 | 0777 | 0478 | 0773 | 0488 | 0572 | 0773 | 0673 | 0772 | 0673 | 0772 | 0673 | 0773 | 0673 | 0773 | 0673 | 0773 | 0673 | 0773 |   |   |   |
|------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|
|                              | ANIMAL ID   | 0020 | 0022 | 0020 | 0022 | 0020 | 0022 | 0020 | 0022 | 0020 | 0022 | 0020 | 0022 | 0020 | 0022 | 0020 | 0022 | 0020 | 0022 | 0020 | 0022 | 0020 | 0022 | 0020 | 0022 | 0020 | 0022 | 0020 | 0022 | 0020 | 0022 | 0020 | 0022 |   |   |   |
|                              |             | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3 | 4 | 5 |

males  
(cont...)

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Preputial Gland<br>Histiocytic Sarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Prostate                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Seminal Vesicle                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes<br>Interstitial Cell, Adenoma   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**HEMATOPOIETIC SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow<br>Lymphoma Malignant           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Lymph Node, Bronchial<br>Lymphoma Malignant | M | + | M | M | + | + | M | + | + | + | X | M | M | + | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |   |
| Lymph Node, Mandibular                      | + | + | + | + | M | + | M | M | + | I | M | + | + | + | + | M | M | + | + | + | + | + | + | + | + | M | M | + | M | + | + | + | + | + | + |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE MALE<br>10 mg/m3  | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|   | 0730        | 0621 | 0730 | 0674 | 0729 | 0666 | 0779 | 0779 | 0550 | 0770 | 0764 | 0673 | 0773 | 0773 | 0488 | 0743 | 0481 | 0572 | 0729 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 |           |                    |
| Lymph Node, Mediastinal   | +           | +    | +    | M    | +    | +    | I    | +    | I    | +    | +    | +    | +    | +    | M    | +    | +    | M    | +    | +    | I    | +    | +    | M    | I    |           |                    |
| Lymph Node, Mesenteric<br>Lymphoma Malignant  | +           | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |           |                    |
| Spleen<br>Lymphoma Malignant  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |           |                    |
| Thymus  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | I    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |           |                    |
| <b>INTEGUMENTARY SYSTEM</b>   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Mammary Gland   | M           | M    | M    | +    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | +    | M    | M    | M    | M    | M    | M    | M    |           |                    |
| Skin<br>Subcutaneous Tissue, Histiocytic Sarcoma<br>Subcutaneous Tissue, Lymphoma Malignant | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |           |                    |
| <b>MUSCULOSKELETAL SYSTEM</b>   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Bone<br>Osteoma   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |           |                    |
| Skeletal Muscle   |             | +    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| <b>NERVOUS SYSTEM</b>   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Brain   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |           |                    |
| Peripheral Nerve  |             | +    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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 X .. Lesion present  
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Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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

|                         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                            |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|
| <b>B6C3F1 MICE MALE</b> | DAY ON TEST | 0730 | 0621 | 0730 | 0674 | 0729 | 0666 | 0779 | 0779 | 0550 | 0770 | 0674 | 0770 | 0770 | 0770 | 0478 | 0743 | 0487 | 0572 | 0729 | 0770 | 0770 | 0770 | 0770 | 0770 | <b>males<br/>(cont...)</b> |
|                         | ANIMAL ID   | 0020 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 |                            |

Spinal Cord +

**RESPIRATORY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lung   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma                             |   |   | X |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Alveolar/Bronchiolar Adenoma, Multiple                   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolar/Bronchiolar Carcinoma                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   | X |
| Hepatocellular Carcinoma, Metastatic, Liver              |   |   |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                                       |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Mediastinum, Hepatocellular Carcinoma, Metastatic, Liver |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pleura   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Trachea  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**SPECIAL SENSES SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma         |   |   |   |   |   | X |   | X |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**URINARY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

















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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

|                         |             |                        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |   |
|-------------------------|-------------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|---|
| <b>B6C3F1 MICE MALE</b> | DAY ON TEST | 0729                   | 0729 | 0730 | 0662 | 0773 | 0671 | 0767 | 0570 | 0553 | 0770 | 0770 | 0664 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0667 | 0334 | 0772 | 0772 |      |   |   |
|                         | ANIMAL ID   | 0040                   | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 |   |   |
| <b>30 mg/m3</b>         |             | 1                      | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4 | 5 |
|                         |             | <b>males (cont...)</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |   |

**ALIMENTARY SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder                        | + | M | + | A | + | + | + | + | + | A | + | + | A | + | + | + | A | + | M | + | M | M | M | + | + |
| Lymphoma Malignant                 |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Large, Cecum             | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon             | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Intestine Large, Rectum            | + | + | + | + | + | + | + | I | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum          | + | + | + | A | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + |
| Intestine Small, Ileum             | + | + | + | + | + | + | A | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Intestine Small, Jejunum           | + | + | + | + | + | + | A | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + |
| Lymphoma Malignant                 |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Liver                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma, Multiple          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatoblastoma                     |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   | X | X |
| Hepatocellular Adenoma             |   | X |   |   | X |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   | X |   | X |   |   |
| Hepatocellular Adenoma, Multiple   | X |   | X |   |   |   |   | X |   | X |   |   |   |   |   | X |   |   |   |   | X |   |   | X |   |
| Hepatocellular Carcinoma           |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   | X |   | X |   |   |   |
| Hepatocellular Carcinoma, Multiple |   |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocholangiocarcinoma           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
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Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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

|                         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| <b>B6C3F1 MICE MALE</b> | DAY ON TEST | 0729 | 0729 | 0730 | 0662 | 0773 | 0674 | 0753 | 0753 | 0773 | 0664 | 0776 | 0677 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0663 | 0777 | 0777 |  |
|                         | ANIMAL ID   | 0040 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 |  |

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |  |
| Seminal Vesicle    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |  |
| Testes             | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |  |

HEMATOPOIETIC SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow  | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |   |
| Schwannoma Malignant, Metastatic, Peripheral Nerve |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Iliac, Lymphoma Malignant                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Pancreatic, Lymphoma Malignant                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Pancreatic, Sarcoma, Metastatic, Mesentery         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal, Lymphoma Malignant                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Renal, Sarcoma, Metastatic, Mesentery              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Bronchial                              | + | + | + | + | + | M | + | + | + | M | + | + | A | + | + | M | + | + | + | + | + | + |   |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lymphoma Malignant                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Lymph Node, Mandibular                             | + | M | M | + | M | + | M | + | + | M | M | + | M | + | + | M | + | + | + | M | + | + |   |
| Lymphoma Malignant                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Lymph Node, Mediastinal                            | + | + | + | + | + | + | + | + | + | + | + | + | A | M | M | + | + | + | + | + | + | + |   |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | I |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE MALE<br>30 mg/m3                     | DAY ON TEST | 0729 | 0729 | 0730 | 0762 | 0773 | 0776 | 0767 | 0775 | 0759 | 0755 | 0777 | 0777 | 0766 | 0777 | 0777 | 0777 | 0777 | 0777 | 0766 | 0733 | 0777 | 0777 | ANIMAL ID | males<br>(cont...) |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
|  | 0040        | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 |           |                    | 0044 |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | X                  |      |
| Lymph Node, Mesenteric Hemangioma                |             | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M         | +                  | +    |
| Histiocytic Sarcoma                              |             |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |           |                    |      |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | X                  |      |
| Sarcoma, Metastatic, Mesentery                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| Spleen   |             | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  |      |
| Histiocytic Sarcoma                              |             |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |           |                    |      |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |           | X                  |      |
| Thymus   |             | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  |      |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |           |                    |      |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | X                  |      |
| <b>INTEGUMENTARY SYSTEM</b>                      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| Mammary Gland                                    |             | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M         | M                  |      |
| Skin   |             | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  |      |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | X                  |      |
| Subcutaneous Tissue, Hemangiosarcoma             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | X                  |      |
| <b>MUSCULOSKELETAL SYSTEM</b>                    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| Bone   |             | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  |      |
| Skeletal Muscle                                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| Sarcoma, Metastatic, Mesentery                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

|                         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                            |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|
| <b>B6C3F1 MICE MALE</b> | DAY ON TEST | 0729 | 0729 | 0730 | 0662 | 0773 | 0677 | 0770 | 0559 | 0553 | 0770 | 0770 | 0664 | 0771 | 0771 | 0771 | 0772 | 0773 | 0773 | 0773 | 0667 | 0334 | 0772 | 0772 | <b>males<br/>(cont...)</b> |
|                         | ANIMAL ID   | 0040 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 |                            |

**SPECIAL SENSES SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye             | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma         |   |   |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**URINARY SYSTEM**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney             | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |
| Urethra            |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder    | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |

**SYSTEMIC LESIONS**

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant  |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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M .. Missing tissue  
 A .. Autolysis precludes evaluation  
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Experiment Number: 20523 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE MALE<br>30 mg/m3                     | DAY ON TEST | 0697  | 0731  | 0729  | 0730  | 0764  | 0731  | 0712  | 0772  | 0771  | 0773  | 0772  | 0772  | 0779  | 0753  | 0773  | 0772  | 0773  | 0773  | 0772  | 0772  | 0773  | 0773  | 0773  | * TOTALS |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
|  | ANIMAL ID   | 00426 | 00442 | 00422 | 00422 | 00433 | 00433 | 00433 | 00433 | 00433 | 00433 | 00433 | 00433 | 00433 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00445 |          | 00440 |
| Sarcoma, Metastatic, Mesentery                   |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |       |
| Mesentery  |             |       | +     |       |       |       |       |       | +     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 4        |       |
| Hemangiosarcoma                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |       |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |       |
| Sarcoma  |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |       |
| Pancreas   |             | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49       |       |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |       |
| Salivary Glands                                  |             | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49       |       |
| Stomach, Forestomach                             |             | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49       |       |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |       |
| Squamous Cell Papilloma                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       | 1        |       |
| Stomach, Glandular                               |             | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49       |       |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |       |
| Sarcoma, Metastatic, Mesentery                   |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |       |
| Tooth  |             |       | +     |       |       |       |       |       |       |       | +     | +     |       |       |       |       |       |       |       |       |       | +     |       |       | 8        |       |
| <b>CARDIOVASCULAR SYSTEM</b>                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |
| Blood Vessel                                     |             | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |       |
| Aorta, Lymphoma Malignant, Metastatic, Spleen    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |       |
| Heart  |             | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |       |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |       |       |       |       |       |       |       |       | X     |       |       |       |       |       | X     |       |       |       |       |       |       |       |       | 3        |       |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
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 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE MALE<br>30 mg/m3 | DAY ON TEST | 0697  | 0731  | 0779  | 0770  | 0671  | 0672  | 0771  | 0772  | 0773  | 0774  | 0775  | 0776  | 0777  | 0778  | 0779  | 0770  | 0771  | 0772  | 0773  | 0774  | 0775  | 0776  | 0777  | 0778  | 0779  | * TOTALS |
|------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|                              | ANIMAL ID   | 00426 | 00447 | 00408 | 00409 | 00400 | 00400 | 00400 | 00400 | 00400 | 00400 | 00400 | 00400 | 00400 | 00400 | 00400 | 00400 | 00400 | 00400 | 00400 | 00400 | 00400 | 00400 | 00400 | 00400 | 00400 |          |
|                              |             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |          |

**ENDOCRINE SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------|----|
| Adrenal Cortex<br>Adenoma<br>Lymphoma Malignant<br>Subcapsular, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49<br>1<br>1<br>1 |    |
| Adrenal Medulla   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48                |    |
| Islets, Pancreatic<br>Lymphoma Malignant, Metastatic, Spleen            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 48<br>1           |    |
| Parathyroid Gland   | + | + | + | + | M | + | + | M | + | + | M | M | M | M | + | + | + | M | M | + | M | + | + | + | + | 36                |    |
| Pituitary Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | +                 | 48 |
| Thyroid Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | I | +                 | 47 |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Epididymis<br>Lymphoma Malignant      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49<br>1 |
| Preputial Gland<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 48<br>1 |
| Prostate                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically













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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE MALE<br>100 mg/m3 | DAY ON TEST | 0730  | 0733  | 0739  | 0771  | 0774  | 0777  | 0778  | 0779  | 0780  | 0781  | 0782  | 0783  | 0784  | 0785  | 0786  | 0787  | 0788  | 0789  | 0790  | 0791  | 0792  | 0793  | 0794  | 0795  | 0796  | 0797  | 0798  | 0799  | males<br>(cont...) |
|-------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
|                               | ANIMAL ID   | 00601 | 00602 | 00603 | 00604 | 00605 | 00606 | 00607 | 00608 | 00609 | 00610 | 00611 | 00612 | 00613 | 00614 | 00615 | 00616 | 00617 | 00618 | 00619 | 00620 | 00621 | 00622 | 00623 | 00624 | 00625 | 00626 | 00627 | 00628 |                    |

Fibrous Histiocytoma

X

Salivary Glands

+ +

Stomach, Forestomach  
Squamous Cell Papilloma

+  
X

Stomach, Glandular

+ +

Tooth

+

**CARDIOVASCULAR SYSTEM**

Blood Vessel

+ +

Heart

+ +

**ENDOCRINE SYSTEM**

Adrenal Cortex

+ +

Adenoma  
Subcapsular, Adenoma

X

Adrenal Medulla

+ +

Islets, Pancreatic

+ +

Parathyroid Gland  
Carcinoma

+ + M + M + + + + + M + + M M + + + + M + + + + +

Pituitary Gland

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically





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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

|                         |             |                        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------|-------------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>B6C3F1 MICE MALE</b> | DAY ON TEST | 0730                   | 0537 | 0723 | 0732 | 0421 | 0744 | 0578 | 0771 | 0770 | 0771 | 0772 | 0772 | 0772 | 0645 | 0722 | 0722 | 0731 | 0756 | 0673 | 0733 | 0733 | 0733 | 0730 | 0730 | 0738 | 0730 |
|                         | ANIMAL ID   | 0060                   | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 |
| <b>100 mg/m3</b>        |             | 1                      | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    |      |
|                         |             | <b>males (cont...)</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

**NERVOUS SYSTEM**

|                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Peripheral Nerve |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Spinal Cord      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Larynx                                      | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Alveolar/Bronchiolar Adenoma                |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   | X |   |   |   |   |  |
| Alveolar/Bronchiolar Adenoma, Multiple      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Alveolar/Bronchiolar Carcinoma              |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X | X | X | X |   | X |   |   |   |  |
| Alveolar/Bronchiolar Carcinoma, Multiple    | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X | X |   |  |
| Carcinoma, Metastatic, Harderian Gland      |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Hepatoblastoma, Metastatic, Liver           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |  |
| Hepatocellular Carcinoma, Metastatic, Liver |   | X |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   |   |   |  |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Carcinoma, Metastatic, Harderian Gland      |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Pleura                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Trachea                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |

**SPECIAL SENSES SYSTEM**

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE MALE<br>100 mg/m3 | DAY ON TEST | 0731  | 0732  | 0733  | 0734  | 0735  | 0736  | 0737  | 0738  | 0739  | 0740  | 0741  | 0742  | 0743  | 0744  | 0745  | 0746  | 0747  | 0748  | 0749  | 0750  | * TOTALS |       |
|-------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
|                               | ANIMAL ID   | 00626 | 00662 | 00662 | 00662 | 00663 | 00663 | 00663 | 00663 | 00663 | 00664 | 00665 | 00667 | 00668 | 00669 | 00670 | 00671 | 00672 | 00673 | 00674 | 00675 |          | 00676 |
|                               |             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        |       |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Esophagus                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Gallbladder                                  | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | M | + | + | + | + | 42      |
| Intestine Large, Cecum                       | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | 46      |
| Intestine Large, Colon                       | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 48      |
| Intestine Large, Rectum                      | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | 45      |
| Intestine Small, Duodenum                    | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | 44      |
| Intestine Small, Ileum<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | X | + | 43<br>1 |
| Intestine Small, Jejunum                     | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | 44      |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Fibrous Histiocytoma                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Hepatoblastoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2       |
| Hepatocellular Adenoma                       |   |   | X | X |   |   |   |   | X | X |   | X |   |   |   |   |   |   |   | X |   |   |   | 12      |
| Hepatocellular Adenoma, Multiple             | X | X |   |   | X | X | X | X |   |   | X |   | X |   | X | X |   |   |   |   | X |   |   | 24      |
| Hepatocellular Carcinoma                     |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | X | X |   |   |   |   | 8       |
| Hepatocellular Carcinoma, Multiple           |   |   |   | X |   |   |   |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   | 13      |
| Mesentery                                    |   |   |   |   |   | + |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   | 2       |
| Pancreas                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically











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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE MALE<br>100 mg/m3          | DAY ON TEST | 0731  | 0732  | 0733  | 0734  | 0735  | 0736  | 0737  | 0738  | 0739  | 0740  | 0741  | 0742  | 0743  | 0744  | 0745  | 0746  | 0747  | 0748  | 0749  | 0750  | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|  | ANIMAL ID   | 00626 | 00662 | 00662 | 00662 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 |          |
| Carcinoma, Metastatic, Harderian Gland |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Harderian Gland                        |             | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Adenoma                                |             |       |       |       | X     |       |       |       |       |       |       |       |       |       | X     |       |       |       | X     |       | X     | 6        |
| Adenoma, Multiple                      |             |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Carcinoma                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| <b>URINARY SYSTEM</b>                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Kidney                                 |             | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Hepatoblastoma, Metastatic, Liver      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Urinary Bladder                        |             | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| <b>SYSTEMIC LESIONS</b>                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Multiple Organ                         |             | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Histiocytic Sarcoma                    |             |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       | 1        |
| Lymphoma Malignant                     |             |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       | X     |       |       |       | 2        |

\*\*\* END OF MALE DATA \*\*\*

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

|                           |                |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                              |      |
|---------------------------|----------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------------|------|
| <b>B6C3F1 MICE FEMALE</b> | DAY ON TEST    | 0733      | 0573 | 0759 | 0553 | 0773 | 0773 | 0773 | 0773 | 0572 | 0773 | 0773 | 0663 | 0773 | 0773 | 0773 | 0478 | 0769 | 0673 | 0773 | 0773 | 0673 | 0764 | <b>females<br/>(cont...)</b> |      |
|                           | <b>Control</b> | ANIMAL ID | 0010 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 |                              | 0011 |
|                           |                |           | 1234 | 5678 | 9012 | 3456 | 7890 | 1234 | 5678 | 9012 | 3456 | 7890 | 1234 | 5678 | 9012 | 3456 | 7890 | 1234 | 5678 | 9012 | 3456 | 7890 | 1234 |                              | 5678 |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Gallbladder<br>Lymphoma Malignant  | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A |
| Intestine Large, Cecum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Colon   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Rectum  | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Intestine Small, Duodenum<br>Histiocytic Sarcoma<br>Lymphoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A |
| Intestine Small, Ileum<br>Lymphoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A |
| Intestine Small, Jejunum<br>Lymphoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A |
| Liver<br>Hepatoblastoma<br>Hepatocellular Adenoma<br>Hepatocellular Adenoma, Multiple<br>Hepatocellular Carcinoma<br>Histiocytic Sarcoma<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|  |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   | X |   |   |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
|  |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
|  |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE FEMALE<br>Control | DAY ON TEST | 0733 | 0573 | 0759 | 0553 | 0773 | 0773 | 0773 | 0773 | 0572 | 0773 | 0773 | 0773 | 0673 | 0773 | 0773 | 0773 | 0478 | 0769 | 0673 | 0773 | 0773 | 0676 | 0764 |
|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                               | ANIMAL ID   | 0010 | 0011 | 0010 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 |
|                               |             | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
|                               |             | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    |

females  
(cont...)

Lymphoma Malignant

X

X

**ENDOCRINE SYSTEM**

Adrenal Cortex

+ +

Histiocytic Sarcoma

Lymphoma Malignant

X

Adrenal Medulla

+ +

Histiocytic Sarcoma

Pheochromocytoma Benign

Islets, Pancreatic

+ +

Histiocytic Sarcoma, Metastatic, Pancreas

Histiocytic Sarcoma, Metastatic, Spleen

X

Lymphoma Malignant, Metastatic, Pancreas

X

Parathyroid Gland

+ M + + M + + M + + + M M + M M + + + M + M

Adenoma

Pituitary Gland

+ + + + + + + + + + + + I + + + + + + + + + + M

Pars Distalis, Adenoma

Pars Distalis, Carcinoma

X

X

X

X

X

X

Thyroid Gland

+ +

Lymphoma Malignant

C-cell, Carcinoma

X

X

**GENERAL BODY SYSTEM**

Tissue NOS

+

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

|                           |             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                              |
|---------------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|
| <b>B6C3F1 MICE FEMALE</b> | DAY ON TEST | 0<br>7<br>3<br>3      | 0<br>5<br>7<br>5      | 0<br>7<br>3<br>1      | 0<br>5<br>9<br>7      | 0<br>5<br>5<br>0      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>5<br>2<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>2      | 0<br>6<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>3      | 0<br>4<br>8<br>1      | 0<br>7<br>3<br>2      | 0<br>6<br>9<br>4      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>1      | 0<br>6<br>4<br>5      | <b>females<br/>(cont...)</b> |
|                           | ANIMAL ID   | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>2 | 0<br>0<br>1<br>0<br>3 | 0<br>0<br>1<br>0<br>4 | 0<br>0<br>1<br>0<br>5 | 0<br>0<br>1<br>0<br>6 | 0<br>0<br>1<br>0<br>7 | 0<br>0<br>1<br>0<br>8 | 0<br>0<br>1<br>0<br>9 | 0<br>0<br>1<br>1<br>0 | 0<br>0<br>1<br>1<br>1 | 0<br>0<br>1<br>1<br>1 | 0<br>0<br>1<br>1<br>1 | 0<br>0<br>1<br>1<br>1 | 0<br>0<br>1<br>1<br>1 | 0<br>0<br>1<br>1<br>1 | 0<br>0<br>1<br>1<br>1 | 0<br>0<br>1<br>2<br>2 | 0<br>0<br>1<br>2<br>2 | 0<br>0<br>1<br>2<br>2 | 0<br>0<br>1<br>2<br>2 | 0<br>0<br>1<br>2<br>3 |                              |

**GENITAL SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | M | + | + | + | + |
| Ovary                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cystadenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Granulosa Cell Tumor Benign            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Histiocytic Sarcoma                    |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                     |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Periovarian Tissue, Lymphoma Malignant |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Uterus                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Histiocytic Sarcoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                     |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Polyp Stromal                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**HEMATOPOIETIC SYSTEM**

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |  |
| Histiocytic Sarcoma          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymphoma Malignant           |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymph Node                   |   | + |   |   | + |   |   |   |   |   |   |   | + |   |   |   |   |   | + |   | + |   |   |   |  |
| Histiocytic Sarcoma          |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Axillary, Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Iliac, Lymphoma Malignant    |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Inguinal, Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lumbar, Hemangiosarcoma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lumbar, Histiocytic Sarcoma  |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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M .. Missing tissue  
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Experiment Number: 20523 - 04  
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE FEMALE<br>Control               | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |   |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|---|
|   | 0733        | 0573 | 0773 | 0595 | 0573 | 0773 | 0773 | 0773 | 0773 | 0572 | 0773 | 0773 | 0773 | 0673 | 0773 | 0773 | 0773 | 0474 | 0766 | 0773 | 0773 | 0773 | 0673 | 0773 |      |                      |   |
| ANIMAL ID                                   | 0010        | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035                 |   |
| Lumbar, Lymphoma Malignant                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      | X |
| Pancreatic, Histiocytic Sarcoma             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |   |
| Pancreatic, Lymphoma Malignant              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      | X |
| Renal, Histiocytic Sarcoma                  |             |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |   |
| Renal, Lymphoma Malignant                   |             | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      | X |
| Lymph Node, Bronchial Histiocytic Sarcoma   | +           | +    | +    | M    | +    | M    | +    | I    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    |      |                      |   |
| Lymphoma Malignant                          |             | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      | X |
| Lymph Node, Mandibular Histiocytic Sarcoma  | M           | +    | M    | M    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | M    |                      |   |
| Lymphoma Malignant                          |             | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      | X |
| Lymph Node, Mediastinal Histiocytic Sarcoma | +           | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | M    | M    |                      |   |
| Lymphoma Malignant                          |             | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      | X |
| Lymph Node, Mesenteric Hemangioma           | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | I    | +    | +    | +    | +    | +    | +                    |   |
| Histiocytic Sarcoma                         |             |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |   |
| Lymphoma Malignant                          |             | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      | X |
| Spleen Histiocytic Sarcoma                  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    |   |
| Lymphoma Malignant                          |             | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      | X |
| Thymus Histiocytic Sarcoma                  | +           | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    |   |
| Lymphoma Malignant                          |             | X    |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      | X |

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 X .. Lesion present  
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| B6C3F1 MICE FEMALE<br>Control        | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...) |  |
|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|--|
|                                      | 0<br>7<br>3<br>3 | 0<br>5<br>7<br>5 | 0<br>7<br>3<br>1 | 0<br>5<br>9<br>7 | 0<br>5<br>5<br>0 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>5<br>2<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>6<br>3<br>1 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>3 | 0<br>4<br>8<br>1 | 0<br>7<br>3<br>2 | 0<br>6<br>9<br>4 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>1 | 0<br>6<br>7<br>5 |           |                      |  |
| Carcinoma, Metastatic, Thyroid Gland |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X         |                      |  |
| Histiocytic Sarcoma                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |  |
| Lymphoma Malignant                   | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |           |                      |  |
| Nose                                 | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         |                      |  |
| Trachea                              | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | M                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         |                      |  |
| Lymphoma Malignant                   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |  |
| <b>SPECIAL SENSES SYSTEM</b>         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |  |
| Eye                                  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | A                | +                | +                | +                | +         |                      |  |
| Lymphoma Malignant                   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |  |
| Harderian Gland                      | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         |                      |  |
| Adenoma                              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |  |
| Carcinoma                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X         |                      |  |
| Lymphoma Malignant                   | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |           |                      |  |
| <b>URINARY SYSTEM</b>                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |  |
| Kidney                               | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | A                | +                | +                | +                | +         |                      |  |
| Histiocytic Sarcoma                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |  |
| Lymphoma Malignant                   | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |           |                      |  |
| Artery, Histiocytic Sarcoma          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |  |
| Urinary Bladder                      | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         |                      |  |
| Histiocytic Sarcoma                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |  |
| Lymphoma Malignant                   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |           |                      |  |
| <b>SYSTEMIC LESIONS</b>              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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| B6C3F1 MICE FEMALE | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |
|--------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
|                    | 0731        | 0733  | 0733  | 0732  | 0733  | 0737  | 0731  | 0732  | 0734  | 0737  | 0732  | 0733  | 0735  | 0733  | 0733  | 0733  | 0733  | 0736  | 0737  | 0738  | 0733  | 0733  | 0732  | 0738  |          | 0737  | 0732  | 0733  | 0732  |
| Control            | 00126       | 00127 | 00128 | 00129 | 00130 | 00131 | 00132 | 00133 | 00134 | 00135 | 00136 | 00137 | 00138 | 00139 | 00140 | 00141 | 00142 | 00143 | 00144 | 00145 | 00146 | 00147 | 00148 | 00149 | 00150    | 00151 | 00152 | 00153 | 00154 |

**ALIMENTARY SYSTEM**

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant               |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 |    |
| Intestine Large, Cecum           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Small, Duodenum        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Histiocytic Sarcoma              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant               |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Small, Ileum           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymphoma Malignant               |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Intestine Small, Jejunum         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymphoma Malignant               |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Liver                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatoblastoma                   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Hepatocellular Adenoma           |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 7  |
| Hepatocellular Adenoma, Multiple |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Hepatocellular Carcinoma         |   |   |   | X |   | X |   |   |   |   | X | X |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 7  |
| Histiocytic Sarcoma              |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 3  |
| Lymphoma Malignant               |   |   |   |   |   |   |   |   |   |   | X | X |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   | 6  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically





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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE FEMALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|--------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|                    | 0731        | 0733 | 0733 | 0732 | 0733 | 0731 | 0731 | 0732 | 0732 | 0732 | 0733 | 0733 | 0733 | 0735 | 0733 | 0733 | 0733 | 0733 | 0736 | 0737 | 0738 | 0733 | 0737 | 0737 |          |
| Control            | 001         | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  |          |
|                    | 002         | 002  | 002  | 002  | 003  | 003  | 003  | 003  | 003  | 003  | 003  | 003  | 003  | 003  | 004  | 004  | 004  | 004  | 004  | 004  | 004  | 004  | 004  | 005  |          |
|                    | 006         | 007  | 008  | 009  | 000  | 001  | 002  | 003  | 004  | 005  | 006  | 007  | 008  | 009  | 000  | 001  | 002  | 003  | 004  | 005  | 006  | 007  | 008  | 009  |          |

**GENITAL SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Clitoral Gland                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 46 |
| Ovary                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cystadenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | 1  |
| Granulosa Cell Tumor Benign            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1  |
| Histiocytic Sarcoma                    |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 3  |
| Lymphoma Malignant                     |   |   |   |   |   |   |   |   |   | X | X |   |   |   | X |   |   |   |   |   |   |   |   | 4  |
| Periovarian Tissue, Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Uterus                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma                        |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Histiocytic Sarcoma                    |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant                     |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Polyp Stromal                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | 1  |

**HEMATOPOIETIC SYSTEM**

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Histiocytic Sarcoma          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |
| Lymphoma Malignant           |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Lymph Node                   |   |   |   |   |   |   |   |   | + | + |   |   |   |   |   | + |   |   |   |   | + | + |   | 11 |
| Histiocytic Sarcoma          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Axillary, Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Iliac, Lymphoma Malignant    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Inguinal, Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lumbar, Hemangiosarcoma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | 1  |
| Lumbar, Histiocytic Sarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically







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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE FEMALE                   | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |  |
|--------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--|
|                                      | 0731        | 0733 | 0733 | 0732 | 0733 | 0737 | 0731 | 0732 | 0734 | 0733 | 0733 | 0733 | 0735 | 0733 | 0733 | 0733 | 0733 | 0736 | 0737 | 0738 | 0733 | 0732 | 0737 | 0737 |          |  |
| Control                              | ANIMAL ID   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
|                                      | 001         | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001      |  |
| Carcinoma, Metastatic, Thyroid Gland |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |  |
| Histiocytic Sarcoma                  |             |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      | 3        |  |
| Lymphoma Malignant                   |             |      |      |      |      |      |      |      |      |      | X    | X    |      |      | X    |      |      |      |      |      |      |      |      |      | 5        |  |
| Nose                                 | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |
| Trachea                              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49       |  |
| Lymphoma Malignant                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      | 1        |  |
| <b>SPECIAL SENSES SYSTEM</b>         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| Eye                                  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49       |  |
| Lymphoma Malignant                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |  |
| Harderian Gland                      | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |
| Adenoma                              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      | 1        |  |
| Carcinoma                            |             |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      | X    |      |      | 3        |  |
| Lymphoma Malignant                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2        |  |
| <b>URINARY SYSTEM</b>                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| Kidney                               | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49       |  |
| Histiocytic Sarcoma                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |  |
| Lymphoma Malignant                   |             |      |      |      |      |      |      |      |      |      | X    | X    |      |      | X    |      |      |      |      |      |      | X    |      |      | 6        |  |
| Artery, Histiocytic Sarcoma          |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      | 1        |  |
| Urinary Bladder                      | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |
| Histiocytic Sarcoma                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |  |
| Lymphoma Malignant                   |             |      |      |      |      |      |      |      |      |      | X    | X    |      |      |      |      |      |      |      |      |      |      |      |      | 3        |  |
| <b>SYSTEMIC LESIONS</b>              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically





















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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE FEMALE | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|--------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|                    | 0732        | 0732  | 0733  | 0733  | 0732  | 0731  | 0735  | 0732  | 0731  | 0731  | 0738  | 0733  | 0733  | 0733  | 0733  | 0732  | 0733  | 0733  | 0732  | 0739  | 0732  | 0737  | 0734  | 0738  | 0732  |          |
| 10 mg/m3           | 00326       | 00337 | 00338 | 00339 | 00330 | 00301 | 00302 | 00303 | 00304 | 00305 | 00306 | 00307 | 00308 | 00309 | 00310 | 00311 | 00312 | 00313 | 00314 | 00315 | 00316 | 00317 | 00318 | 00319 | 00320 |          |

**ALIMENTARY SYSTEM**

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Esophagus                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |
| Gallbladder                      | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | A | + | 46 |    |
| Histiocytic Sarcoma              |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |    |
| Lymphoma Malignant               |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |
| Intestine Large, Cecum           | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |    |
| Histiocytic Sarcoma              |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |
| Lymphoma Malignant               |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |    |
| Intestine Large, Colon           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |
| Histiocytic Sarcoma              |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |
| Intestine Large, Rectum          | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |    |
| Intestine Small, Duodenum        | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | +  | 46 |
| Histiocytic Sarcoma              |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |
| Lymphoma Malignant               |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |
| Intestine Small, Ileum           | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | +  | 47 |
| Histiocytic Sarcoma              |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |
| Lymphoma Malignant               |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   |   |   |   |   |   | 2  |    |
| Intestine Small, Jejunum         | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | +  | 45 |
| Liver                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |
| Hepatocellular Adenoma           | X |   |   | X |   | X |   |   |   |   |   |   | X |   | X | X |   |   |   |   |   |   |   |   | 11 |    |
| Hepatocellular Adenoma, Multiple |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | 4  |    |
| Hepatocellular Carcinoma         |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE FEMALE<br>10 mg/m3     | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |      |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|------|
|                                    | 0732        | 0732  | 0733  | 0733  | 0732  | 0731  | 0735  | 0732  | 0731  | 0731  | 0738  | 0733  | 0733  | 0733  | 0733  | 0732  | 0733  | 0733  | 0732  | 0739  |          | 0732  | 0737  | 0734  | 0738  | 0731  | 0732 |
| ANIMAL ID                          | 00326       | 00337 | 00338 | 00339 | 00300 | 00301 | 00302 | 00303 | 00304 | 00305 | 00306 | 00307 | 00308 | 00309 | 00310 | 00311 | 00312 | 00313 | 00314 | 00315 | 00316    | 00317 | 00318 | 00319 | 00320 | 00321 |      |
| Hepatocellular Carcinoma, Multiple |             |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 3    |
| Histiocytic Sarcoma                |             |       | X     |       |       |       |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 4    |
| Ito Cell Tumor Benign              |             |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 1    |
| Lymphoma Malignant                 |             | X     |       |       |       |       | X     |       |       | X     |       |       |       |       |       |       |       |       | X     | X     |          |       |       |       |       |       | 6    |
| Mesentery                          |             |       |       |       |       |       |       |       |       | +     |       |       | +     | +     | +     |       |       |       |       |       |          |       |       |       |       |       | 10   |
| Histiocytic Sarcoma                |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |          |       |       |       |       |       | 2    |
| Pancreas                           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | 50   |
| Histiocytic Sarcoma                |             |       |       |       |       |       |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 2    |
| Lymphoma Malignant                 |             |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       | X     | X     |          |       |       |       |       |       | 3    |
| Salivary Glands                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | 50   |
| Histiocytic Sarcoma                |             |       |       | X     |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 2    |
| Lymphoma Malignant                 |             | X     |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       | X     | X     | X        |       |       |       |       |       | 5    |
| Stomach, Forestomach               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | 50   |
| Histiocytic Sarcoma                |             |       |       | X     |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |          |       |       |       |       |       | 3    |
| Lymphoma Malignant                 |             |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       | X     |          |       |       |       |       |       | 2    |
| Stomach, Glandular                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | 50   |
| Histiocytic Sarcoma                |             |       |       | X     |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 2    |
| Lymphoma Malignant                 |             |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       | X     |       |          |       |       |       |       |       | 2    |
| Tooth                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 1    |

**CARDIOVASCULAR SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Aorta, Lymphoma Malignant, Metastatic, Spleen |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE FEMALE<br>10 mg/m3                   | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |      |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|------|
|  | 0732        | 0732  | 0733  | 0733  | 0732  | 0731  | 0735  | 0732  | 0731  | 0731  | 0738  | 0732  | 0732  | 0733  | 0733  | 0732  | 0733  | 0733  | 0732  | 0739  |          | 0732  | 0737  | 0734  | 0738  | 0731  | 0732 |
| ANIMAL ID  | 00326       | 00337 | 00338 | 00339 | 00300 | 00301 | 00302 | 00303 | 00304 | 00305 | 00306 | 00307 | 00308 | 00309 | 00310 | 00311 | 00312 | 00313 | 00314 | 00315 | 00316    | 00317 | 00318 | 00319 | 00320 | 00321 |      |
| Histiocytic Sarcoma                              |             |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 1    |
| Ovary  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | 49   |
| Cystadenoma                                      |             |       |       | X     |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 4    |
| Histiocytic Sarcoma                              |             |       | X     |       |       |       |       |       |       | X     | X     |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 4    |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     | X     |          |       |       |       |       |       | 3    |
| Periovarian Tissue, Lymphoma Malignant           |             |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 1    |
| Uterus   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | 50   |
| Hemangioma                                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 1    |
| Hemangiosarcoma                                  |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 2    |
| Histiocytic Sarcoma                              |             |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 1    |
| Polyp Stromal                                    |             |       | X     |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X        |       |       |       |       |       | 3    |
| <b>HEMATOPOIETIC SYSTEM</b>                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |      |
| Bone Marrow                                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | 50   |
| Histiocytic Sarcoma                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 2    |
| Lymphoma Malignant                               |             |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 2    |
| Lymph Node                                       |             | +     | +     |       |       |       | +     |       | +     |       | +     |       | +     |       |       |       |       |       | +     | +     | +        |       |       |       |       |       | 11   |
| Lymphoma Malignant                               |             |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 1    |
| Axillary, Schwannoma Malignant, Metastatic, Skin |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 1    |
| Deep Cervical, Lymphoma Malignant                |             | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 1    |
| Lumbar, Histiocytic Sarcoma                      |             |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 1    |
| Lumbar, Lymphoma Malignant                       |             | X     |       |       |       | X     |       |       |       |       |       |       |       |       |       |       | X     | X     | X     |       |          |       |       |       |       |       | 5    |
| Pancreatic, Histiocytic Sarcoma                  |             |       |       |       |       |       |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 2    |
| Pancreatic, Lymphoma Malignant                   |             | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |          |       |       |       |       |       | 2    |
| Renal, Histiocytic Sarcoma                       |             |       | X     |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 2    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically









Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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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

| B6C3F1 MICE FEMALE<br>10 mg/m3                          | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |      |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|
|   | 0732        | 0732  | 0733  | 0733  | 0732  | 0731  | 0735  | 0732  | 0731  | 0731  | 0738  | 0732  | 0732  | 0733  | 0733  | 0732  | 0733  | 0733  | 0733  | 0732  | 0739  | 0732  | 0737  | 0736  | 0735  |          | 0737 |
| ANIMAL ID   | 00326       | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | 00351    |      |
| Lymphoma Malignant                                      |             |       |       |       |       |       | X     |       |       | X     |       |       |       |       |       |       |       | X     | X     |       |       |       |       |       |       | 5        |      |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |
| Urethra   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | +     | 1        |      |
| Urinary Bladder   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |      |
| Histiocytic Sarcoma                                     |             |       | X     |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |      |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       | X     | X     |       |       |       |       |       |       | 4        |      |
| <b>SYSTEMIC LESIONS</b>                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |
| Multiple Organ  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |      |
| Histiocytic Sarcoma                                     |             |       | X     | X     |       |       |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 5        |      |
| Lymphoma Malignant                                      |             | X     |       |       |       |       | X     |       |       | X     |       |       |       |       |       |       |       | X     | X     | X     |       |       | X     |       |       | 8        |      |

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Experiment Number: 20523 - 04

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Species/Strain: MICE/B6C3F1

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

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

| B6C3F1 MICE FEMALE<br>30 mg/m3              | DAY ON TEST | 01    | 02    | 03    | 04    | 05    | 06    | 07    | 08    | 09    | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|   | ANIMAL ID   | 00526 | 00527 | 00528 | 00529 | 00530 | 00531 | 00532 | 00533 | 00534 | 00535 | 00536 | 00537 | 00538 | 00539 | 00540 | 00541 | 00542 | 00543 | 00544 | 00545 | 00546 | 00547 | 00548 | 00549 | 00550 | 00551 | 00552 | 00553 | 00554 | 00555 |          |
| Lymph Node, Bronchial Histiocytic Sarcoma   | M           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | I     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 44       |
| Lymphoma Malignant                          |             |       | X     |       |       |       |       |       |       |       |       | X     | X     |       | X     |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       | 11       |
| Lymph Node, Mandibular Histiocytic Sarcoma  | +           | +     | +     | M     | M     | M     | +     | +     | +     | I     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | M     | +     | +     |       |       |       |       |       | 37    |          |
| Lymphoma Malignant                          |             |       |       |       |       |       |       |       |       |       |       | X     |       |       | X     | X     |       |       |       |       | X     |       |       |       |       |       |       | X     |       |       | 10    |          |
| Lymph Node, Mediastinal Histiocytic Sarcoma | +           | +     | +     | +     | I     | +     | +     | +     | I     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 45    |          |
| Lymphoma Malignant                          |             |       |       |       |       |       |       |       |       |       |       | X     | X     |       | X     |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       | 7     |          |
| Lymph Node, Mesenteric Histiocytic Sarcoma  | M           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 47    |          |
| Lymphoma Malignant                          |             |       | X     |       |       |       |       |       |       |       |       | X     | X     |       | X     |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       | 3     |          |
| Spleen Hemangiosarcoma                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 48    |          |
| Histiocytic Sarcoma                         |             |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       | 2     |          |
| Lymphoma Malignant                          |             |       | X     |       |       |       |       |       |       |       |       | X     | X     |       | X     | X     |       |       |       |       | X     |       |       |       |       |       | X     |       |       |       | 12    |          |
| Thymus Histiocytic Sarcoma                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | I     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 47    |          |
| Lymphoma Malignant                          |             |       |       |       |       |       |       |       |       |       |       | X     | X     |       | X     |       |       |       |       |       | X     |       |       |       |       |       | X     |       |       |       | 1     |          |
|   |             |       |       |       |       |       |       |       |       |       |       | X     | X     |       | X     |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       | 8     |          |
| <b>INTEGUMENTARY SYSTEM</b>                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Mammary Gland Adenoma                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |
| Carcinoma                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE FEMALE<br>30 mg/m3              | DAY ON TEST | 01    | 02    | 03    | 04    | 05    | 06    | 07    | 08    | 09    | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | * TOTALS |       |    |    |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|----|----|
|   | ANIMAL ID   | 00526 | 00527 | 00528 | 00529 | 00530 | 00531 | 00532 | 00533 | 00534 | 00535 | 00536 | 00537 | 00538 | 00539 | 00540 | 00541 | 00542 | 00543 | 00544 | 00545 | 00546 | 00547 | 00548 | 00549 | 00550 | 00551 | 00552 | 00553 | 00554 | 00555 |          | 00556 |    |    |
| Alveolar/Bronchiolar Adenoma                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 3  |    |
| Alveolar/Bronchiolar Carcinoma              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 5  |    |
| Alveolar/Bronchiolar Carcinoma, Multiple    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1  |    |
| Hepatocellular Carcinoma, Metastatic, Liver |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 2  |    |
| Histiocytic Sarcoma                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 2  |    |
| Lymphoma Malignant                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 9  |    |
| Nose  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 50 |    |
| Histiocytic Sarcoma                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1  |    |
| Trachea                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 50 |    |
| Lymphoma Malignant                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1  |    |
| <b>SPECIAL SENSES SYSTEM</b>                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |    |    |
| Eye   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 50 |    |
| Lymphoma Malignant                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |    | 1  |
| Harderian Gland                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |    | 49 |
| Adenoma                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |    | 5  |
| Carcinoma                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |    | 2  |
| Lymphoma Malignant                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |    | 2  |
| <b>URINARY SYSTEM</b>                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |    |    |
| Kidney                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |    | 49 |
| Histiocytic Sarcoma                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |    | 3  |
| Lymphoma Malignant                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |    | 9  |
| Urinary Bladder                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |    | 50 |
| Histiocytic Sarcoma                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |    | 2  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
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 BLANK .. Not examined microscopically

























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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE FEMALE<br>100 mg/m3                         | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |    |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|
|   | 0733        | 0673  | 0773  | 0773  | 0773  | 0673  | 0773  | 0363  | 0363  | 0673  | 0363  | 0363  | 0363  | 0363  | 0363  | 0363  | 0363  | 0363  | 0363  | 0363  | 0363  | 0363  | 0363  | 0363  |          |    |
| ANIMAL ID   | 00726       | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | 00750    |    |
| Mesentery   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 11 |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung        | X           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Hemangioma  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Histiocytic Sarcoma                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |          | 1  |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Schwannoma Malignant, Metastatic, Heart                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Pancreas  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 50 |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung        | X           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Histiocytic Sarcoma                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |          | 3  |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 5  |
| Sarcoma, Metastatic, Skin                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Salivary Glands   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 50 |
| Histiocytic Sarcoma                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2  |
| Stomach, Forestomach                                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 50 |
| Histiocytic Sarcoma                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Stomach, Glandular                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 50 |
| Histiocytic Sarcoma                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 3  |
| <b>CARDIOVASCULAR SYSTEM</b>                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    |
| Blood Vessel  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 50 |
| Aorta, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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M .. Missing tissue  
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| B6C3F1 MICE FEMALE<br>100 mg/m3                  | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |      |  |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|--|
|  | 0733        | 0673  | 0773  | 0773  | 0673  | 0773  | 0363  | 0667  | 0363  | 0667  | 0363  | 0667  | 0363  | 0667  | 0363  | 0667  | 0363  | 0667  | 0363  | 0667  | 0363  | 0667  | 0363  | 0667  |          | 0363 |  |
| ANIMAL ID  | 00726       | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | 00750    |      |  |
| Aorta, Histiocytic Sarcoma, Metastatic, Spleen   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| Heart  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |      |  |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |      |  |
| Histiocytic Sarcoma                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       | 3        |      |  |
| Lymphoma Malignant                               |             |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |      |  |
| Endocardium, Schwannoma Malignant                |             |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| <b>ENDOCRINE SYSTEM</b>                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |  |
| Adrenal Cortex                                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |      |  |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| Histiocytic Sarcoma                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |      |  |
| Lymphoma Malignant                               |             |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| Subcapsular, Adenoma                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| Adrenal Medulla                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |      |  |
| Islets, Pancreatic Carcinoma                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |      |  |
|  | X           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |      |  |
| Parathyroid Gland                                | +           | M     | M     | M     | +     | +     | +     | +     | +     | M     | +     | M     | M     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | 28       |      |  |
| Pituitary Gland                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | 49       |      |  |
| Pars Distalis, Adenoma                           |             |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | X     |       |       |       | 6     |          |      |  |
| Pars Distalis, Carcinoma                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |          |      |  |
| Thyroid Gland                                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49    |          |      |  |
| Lymphoma Malignant                               |             | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |      |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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| B6C3F1 MICE FEMALE<br>100 mg/m3                            | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|  | 0733        | 0673  | 0773  | 0773  | 0773  | 0676  | 0773  | 0363  | 0667  | 0773  | 0363  | 0667  | 0773  | 0572  | 0773  | 0773  | 0676  | 0773  | 0676  | 0773  | 0773  | 0676  | 0773  | 0773  |          |
| ANIMAL ID  | 00726       | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | 00750    |
| Bone Marrow  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Histiocytic Sarcoma  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Lymphoma Malignant   |             |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |
| Lymph Node   |             |       | +     |       |       |       |       |       |       |       |       |       |       | +     |       | +     |       |       |       |       |       | +     |       |       | 10       |
| Axillary, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Lumbar, Histiocytic Sarcoma                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Lumbar, Lymphoma Malignant                                 |             |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       | 3        |
| Pancreatic, Hemangiosarcoma                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Pancreatic, Lymphoma Malignant                             |             |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |
| Renal, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Renal, Lymphoma Malignant                                  |             |       | X     |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       | 2        |
| Lymph Node, Bronchial                                      | +           | +     | +     | M     | I     | +     | M     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | I     | +     | 43       |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung           |             | X     |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 4        |
| Carcinoma, Metastatic, Harderian Gland                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Histiocytic Sarcoma  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 3        |
| Lymphoma Malignant   |             |       | X     |       |       |       |       |       |       |       |       |       | X     | X     | X     |       | X     | X     |       |       |       |       |       |       | 9        |
| Lymph Node, Mandibular                                     | M           | M     | +     | M     | +     | M     | M     | M     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | 39       |
| Histiocytic Sarcoma  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 3        |
| Lymphoma Malignant   |             |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       | 4        |
| Lymph Node, Mediastinal                                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | 45       |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung           |             | X     |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3        |
| Histiocytic Sarcoma  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 3        |

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

| B6C3F1 MICE FEMALE<br>100 mg/m3                  | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |      |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|------|
|  | 0733        | 0673  | 0773  | 0773  | 0676  | 0773  | 0363  | 0667  | 0773  | 0363  | 0773  | 0667  | 0773  | 0577  | 0773  | 0773  | 0667  | 0773  | 0667  | 0773  |          | 0667  | 0773 |
| ANIMAL ID  | 00726       | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746    | 00747 |      |
| Lymphoma Malignant                               |             | X     |       |       |       |       |       |       |       |       | X     | X     | X     |       |       | X     | X     |       |       |       |          |       | 7    |
| Lymph Node, Mesenteric                           | +           | +     | +     | +     | +     | +     | +     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 48   |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1    |
| Histiocytic Sarcoma                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X        |       | 3    |
| Lymphoma Malignant                               |             |       | X     |       |       |       |       |       |       |       |       | X     |       |       |       | X     | X     |       |       |       |          |       | 7    |
| Sarcoma, Metastatic, Skin                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |          |       | 1    |
| Spleen   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 49   |
| Histiocytic Sarcoma                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X        |       | 3    |
| Lymphoma Malignant                               |             |       | X     |       |       |       |       |       |       |       | X     | X     | X     | X     |       | X     | X     |       |       |       |          |       | 11   |
| Thymus   | +           | +     | +     | +     | +     | I     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 49   |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 2    |
| Histiocytic Sarcoma                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 2    |
| Lymphoma Malignant                               |             |       | X     |       |       |       |       |       |       |       |       | X     | X     |       |       | X     |       |       |       |       |          |       | 5    |
| Sarcoma, Metastatic, Skin                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |          |       | 1    |
| <b>INTEGUMENTARY SYSTEM</b>                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      |
| Mammary Gland                                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50   |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1    |
| Histiocytic Sarcoma, Metastatic, Spleen          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1    |
| Lymphoma Malignant, Metastatic, Spleen           |             |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1    |
| Skin   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50   |
| Schwannoma Benign                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1    |
| Subcutaneous Tissue, Fibrous Histiocytoma        |             |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |          |       | 1    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

| B6C3F1 MICE FEMALE<br>100 mg/m3                          | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|
|  | 0733        | 0673  | 0773  | 0773  | 0676  | 0773  | 0361  | 0667  | 0361  | 0773  | 0667  | 0773  | 0573  | 0773  | 0771  | 0667  | 0773  | 0667  | 0773  | 0773  | 0667  | 0773  | 0667  | 0773  |    |          |
| ANIMAL ID  | 00726       | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 |    |          |
| Subcutaneous Tissue, Sarcoma                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     | 1  |          |
| <b>MUSCULOSKELETAL SYSTEM</b>                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| Bone   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Mandible, Fibrosarcoma                                   |             |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| Skeletal Muscle  |             | +     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 4  |          |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung Sarcoma |             | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| <b>NERVOUS SYSTEM</b>                                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| Brain  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Lymphoma Malignant                                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       | X     |       |       |       |       |       |       | 4  |          |
| Meninges, Histiocytic Sarcoma                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| Peripheral Nerve   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2  |          |
| Spinal Cord  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2  |          |
| <b>RESPIRATORY SYSTEM</b>                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| Larynx   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Lymphoma Malignant                                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       | 1  |          |
| Lung   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Alveolar/Bronchiolar Adenoma                             |             |       |       |       | X     |       |       |       |       | X     |       |       |       |       |       |       |       |       | X     |       | X     |       |       |       | 6  |          |
| Alveolar/Bronchiolar Adenoma, Multiple                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2  |          |
| Alveolar/Bronchiolar Carcinoma                           | X           |       |       | X     |       |       |       |       |       |       | X     |       |       |       | X     | X     |       |       |       |       |       |       |       |       | 9  |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
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 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
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