

**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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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 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	

**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

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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	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
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																									
<b>CARDIOVASCULAR SYSTEM</b>																									
Blood Vessel																									
Heart																									
<b>ENDOCRINE SYSTEM</b>																									
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			

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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Lymphoma Malignant

X

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant												X												X	
Mast Cell Tumor Malignant																									
Lymph Node																									
Pancreatic, Lymphoma Malignant																								+	+
Renal, Lymphoma Malignant																									X
Lymph Node, Bronchial	+	+	+	M	M	M	+	M	+	+	M	+	I	+	M	+	+	+	+	+	+	+	+	+	
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung														X											
Hepatocellular Carcinoma, Metastatic, Liver																									
Lymphoma Malignant	X											X												X	
Lymph Node, Mandibular	+	+	+	I	M	+	+	+	+	M	+	M	+	M	M	M	+	+	M	M	M	M	+	M	M
Lymphoma Malignant	X																								
Lymph Node, Mediastinal	+	+	+	+	M	I	M	M	+	I	I	+	+	+	M	+	+	+	+	M	+	+	M	M	M
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung														X											
Lymphoma Malignant	X												X											X	
Mast Cell Tumor Malignant, Metastatic, Bone Marrow																									
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
Lymphoma Malignant	X															X									

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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	0	0	males (cont...)	
	ANIMAL ID	7	7	7	7	4	7	6	7	7	7	7	5	7	6	6	7	7	7	7	7	7	7	7	7	7	7		
Control		2	3	2	3	1	2	4	3	3	2	2	3	4	2	1	3	3	3	3	3	2	3	2	2	2	2		
		9	0	9	0	4	9	6	1	1	0	9	9	9	9	8	0	1	1	1	1	0	9	1	1	2	2	2	
		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	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	

Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant	X										X	X				X											
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+
Hepatocellular Carcinoma, Metastatic, Liver																											
Lymphoma Malignant													X														
Mast Cell Tumor Malignant, Metastatic, Bone Marrow																											

INTEGUMENTARY SYSTEM

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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrosarcoma													X														

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Alveolar/Bronchiolar Adenoma	X													X		X											
Alveolar/Bronchiolar Adenoma, Multiple																											

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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					X									

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	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	

**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																										10
Hepatocellular Carcinoma																										10
Hepatocellular Carcinoma, Multiple																										11

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	ANIMAL ID	0 0 0 2 6	0 0 0 2 7	0 0 0 2 8	0 0 0 2 9	0 0 0 3 0	0 0 0 3 1	0 0 0 3 2	0 0 0 3 3	0 0 0 3 4	0 0 0 3 5	0 0 0 3 6	0 0 0 3 7	0 0 0 3 8	0 0 0 3 9	0 0 0 4 0	0 0 0 4 1	0 0 0 4 2	0 0 0 4 3	0 0 0 4 4	0 0 0 4 5	0 0 0 4 6	0 0 0 4 7	0 0 0 4 8		0 0 0 4 9		
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																		X			2
Adenoma, Multiple																												1

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B6C3F1 MICE MALE		DAY ON TEST																								* TOTALS
		0 7 3 0	0 7 2 9	0 5 9 6	0 4 8 4	0 7 3 1	0 7 2 9	0 7 3 1	0 7 3 0	0 7 2 9	0 6 7 5	0 5 4 3	0 7 2 3	0 7 3 3	0 7 3 3	0 7 2 9	0 3 8 0	0 7 3 0	0 7 3 4	0 6 3 9	0 7 3 0	0 7 2 9	0 7 2 9	0 7 2 9		
Control		ANIMAL ID																								* TOTALS
		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	
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	

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	+	28
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Adenoma															X									1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																								1
Preputial Gland	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																								2
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																								1
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	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

<b>B6C3F1 MICE MALE</b>  <b>Control</b>	DAY ON TEST	0730	0729	0756	0748	0773	0777	0777	0777	0777	0765	0757	0777	0777	0777	0777	0777	0737	0777	0777	0766	0777	0777	0777	0777	
	ANIMAL ID	0002	0002	0002	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
		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
																								<b>* TOTALS</b>		

Lymphoma Malignant

1

### HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant										X															4
Mast Cell Tumor Malignant	X																								1
Lymph Node																									3
Pancreatic, Lymphoma Malignant																									1
Renal, Lymphoma Malignant																									2
Lymph Node, Bronchial	+	+	M	+	+	I	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	M	+	38
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung																									1
Hepatocellular Carcinoma, Metastatic, Liver																						X			1
Lymphoma Malignant																									4
Lymph Node, Mandibular	M	+	M	M	+	M	+	M	M	+	+	M	M	M	+	M	M	+	M	M	M	M	M	+	20
Lymphoma Malignant																									2
Lymph Node, Mediastinal	+	M	+	A	+	+	+	+	+	+	+	I	+	+	+	+	+	+	I	+	+	+	+	+	35
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung																									1
Lymphoma Malignant																									3
Mast Cell Tumor Malignant, Metastatic, Bone Marrow	X																								1
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Lymphoma Malignant												X													4

\* .. 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 Control	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	* TOTALS
	ANIMAL ID	7	7	5	4	7	7	7	7	6	5	7	7	7	7	7	3	7	7	6	7	7	7	7	
		3	2	9	8	3	2	3	2	3	2	7	4	3	2	3	3	2	8	3	3	4	3	2	
		0	9	6	4	1	9	1	0	0	0	9	5	9	1	3	0	0	9	8	0	0	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	
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	
Spleen		+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Lymphoma Malignant										X						X								6	
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	I	I	M	M	+	+	+	44	
Hepatocellular Carcinoma, Metastatic, Liver																					X			1	
Lymphoma Malignant																								1	
Mast Cell Tumor Malignant, Metastatic, Bone Marrow		X																						1	
<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	3	
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Fibrosarcoma																								1	
<b>MUSCULOSKELETAL SYSTEM</b>																									
Bone		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>NERVOUS SYSTEM</b>																									
Brain		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>RESPIRATORY SYSTEM</b>																									
Larynx		+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Alveolar/Bronchiolar Adenoma										X							X							5	
Alveolar/Bronchiolar Adenoma, Multiple																					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 MALE Control	DAY ON TEST																								* TOTALS
	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730		
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	
Alveolar/Bronchiolar Carcinoma	X								X		X							X		X					8
Alveolar/Bronchiolar Carcinoma, Multiple																									2
Hepatocellular Carcinoma, Metastatic, Liver												X							X	X				8	
Lymphoma Malignant													X											2	
Nose Lymphoma Malignant	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Trachea	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	46	
<b>SPECIAL SENSES SYSTEM</b>																									
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Harderian Gland Adenoma	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Harderian Gland Carcinoma							X																	4	
																								2	
<b>URINARY SYSTEM</b>																									
Kidney Mast Cell Tumor Malignant, Metastatic, Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
	X																							1	
Urinary Bladder Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
														X										2	
<b>SYSTEMIC LESIONS</b>																									
Multiple Organ Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
									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 MALE 10 mg/m3	DAY ON TEST	0730	0621	0730	0674	0729	0669	0779	0550	0770	0674	0770	0674	0770	0674	0770	0478	0738	0481	0572	0739	0670	0770	0677	0770	0677	0770	0677	0770	0677	0770	0677	0770			
	ANIMAL ID	0020	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002		
		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...)

**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			X															
Hepatocellular Carcinoma			X			X	X																													
Hepatocellular Carcinoma, Multiple	X			X					X																											
Lymphoma Malignant																																				
Mesentery							+					+	+																							
Hemangiosarcoma													X																							
Hepatocellular Carcinoma, Metastatic, Liver						X																													X	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

\* .. 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		DAY ON TEST																				males (cont...)					
		0730	0621	0730	0674	0729	0665	0779	0772	0552	0739	0772	0664	0733	0773	0773	0488	0733	0481	0572	0733		0733	0729	0733	0729	0733
10 mg/m3		ANIMAL ID																				males (cont...)					
		00200	00200	00200	00200	00200	00200	00200	00200	00200	00200	00200	00200	00200	00200	00200	00200	00200	00200	00200	00200		00200	00200	00200	00200	00200
Hepatocellular Carcinoma, Metastatic, Liver																						X					
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach Lymphoma Malignant Squamous Cell Papilloma		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tooth																											
<b>CARDIOVASCULAR SYSTEM</b>																											
Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart Endocardium, Schwannoma Benign		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<b>ENDOCRINE SYSTEM</b>																											
Adrenal Cortex Adenoma Lymphoma Malignant Subcapsular, Adenoma		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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 10 mg/m3	DAY ON TEST	0730	0621	0730	0674	0729	0669	0729	0572	0732	0643	0733	0677	0733	0677	0483	0748	0645	0727	0677	0733	0677	0733	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	

Pituitary Gland	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Preputial Gland Histiocytic Sarcoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes Interstitial Cell, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**HEMATOPOIETIC SYSTEM**

Bone Marrow Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X
Lymph Node, Bronchial Lymphoma Malignant	M	+	M	M	+	+	M	+	+	X	M	M	+	+	+	+	M	M	+	+	+	M	+
Lymph Node, Mandibular	+	+	+	+	M	+	M	M	+	I	M	+	+	+	M	M	+	+	+	+	M	M	+

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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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  10 mg/m3	DAY ON TEST	ANIMAL ID																									males (cont...)
		0730	0621	0730	0674	0729	0656	0729	0750	0730	0753	0624	0733	0733	0723	0733	0748	0743	0487	0481	0572	0730	0733	0729	0733	0729	
		0020	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	
Lymph Node, Mediastinal	+	+	+	M	+	+	I	+	I	+	+	+	+	+	M	+	+	M	+	+	I	+	+	M	I		
Lymph Node, Mesenteric Lymphoma Malignant	+	+	+	+	+	+	M	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Spleen Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	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 Subcutaneous Tissue, Histiocytic Sarcoma Subcutaneous Tissue, Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
<b>MUSCULOSKELETAL SYSTEM</b>																											
Bone Osteoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Skeletal Muscle		+																									
<b>NERVOUS SYSTEM</b>																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Peripheral Nerve		+																									

\* .. 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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAY ON TEST		7	6	7	6	7	6	7	7	5	7	7	6	7	7	7	7	4	7	4	5	7	7	7
10 mg/m3		3	2	3	7	2	5	2	2	5	3	2	4	3	3	2	3	8	3	8	7	2	3	3
ANIMAL ID		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
		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	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
		<b>males (cont...)</b>																						

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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Date Report Requested: 02/02/2015

Test Type: CHRONIC

Metal Working Fluids: Trim VX

Time Report Requested: 13:50:12

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: TRIMVX

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

Species/Strain: MICE/B6C3F1

Lab: BNW

<b>B6C3F1 MICE MALE</b>	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	<b>males (cont...)</b>		
		7	6	7	6	7	6	7	7	5	7	7	6	7	7	7	7	4	7	4	5	7	7	7		7	
<b>10 mg/m3</b>	ANIMAL ID	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	1	0	4	9	6	9	9	0	0	9	4	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
		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	2
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	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	

Kidney  
Lymphoma Malignant

+ + + + + + + + + X + + + + + + + + X + + + + +

Urinary Bladder

+ +

**SYSTEMIC LESIONS**

Multiple Organ  
Histiocytic Sarcoma  
Lymphoma Malignant

+  
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 MALE | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |
|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
|                  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |
| 10 mg/m3         | 7           | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7        |
|                  | 3           | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 5 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3        |
|                  | 0           | 0 | 0 | 9 | 8 | 1 | 9 | 0 | 8 | 9 | 0 | 6 | 0 | 9 | 9 | 1 | 0 | 9 | 0 | 0 | 0 | 0 | 0        |
| ANIMAL ID        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
|                  | 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 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4        |
|                  | 6           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8        |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder                                 | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Large, Cecum                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Colon                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | I | + | + | + | 48 |
| Intestine Small, Duodenum                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Small, Ileum                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Liver                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma                      |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   | X |   | X | X | X |   |   |   | 11 |
| Hepatocellular Adenoma, Multiple            | X |   | X | X |   |   |   |   | X | X |   |   | X | X |   |   | X |   |   |   |   | X | X | 18 |
| Hepatocellular Carcinoma                    |   |   |   | X |   |   | X | X | X |   |   |   |   | X | X |   | X |   |   |   |   | X |   | 13 |
| Hepatocellular Carcinoma, Multiple          | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 5  |
| Lymphoma Malignant                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesentery                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 7  |
| Hemangiosarcoma                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Hepatocellular Carcinoma, Metastatic, Liver |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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>10 mg/m3                | DAY ON TEST | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>2<br>0      | 0<br>6<br>2<br>8      | 0<br>7<br>3<br>1      | 0<br>7<br>2<br>9      | 0<br>7<br>3<br>0      | 0<br>6<br>2<br>8      | 0<br>7<br>2<br>9      | 0<br>7<br>3<br>0      | 0<br>6<br>2<br>6      | 0<br>7<br>3<br>5      | 0<br>7<br>2<br>3      | 0<br>7<br>2<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>2<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>2<br>0      | 0<br>7<br>3<br>3      | 0<br>7<br>2<br>1      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>2      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>3      | 0<br>7<br>2<br>1      | <b>* TOTALS</b> |  |                       |                       |
|---|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------|--|-----------------------|-----------------------|
|   | ANIMAL ID   | 0<br>0<br>2<br>2<br>6 | 0<br>0<br>2<br>2<br>7 | 0<br>0<br>2<br>2<br>8 | 0<br>0<br>2<br>2<br>9 | 0<br>0<br>2<br>2<br>0 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>5 |                 |  | 0<br>0<br>2<br>2<br>6 | 0<br>0<br>2<br>2<br>7 |
| Hepatocellular Carcinoma, Metastatic, Liver |             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                 |  |                       |                       |
| Salivary Glands                             |             | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                 |  |                       |                       |
| Stomach, Forestomach                        |             | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                 |  |                       |                       |
| Lymphoma Malignant                          |             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                 |  |                       |                       |
| Squamous Cell Papilloma                     |             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                 |  |                       |                       |
| Stomach, Glandular                          |             | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                 |  |                       |                       |
| Tooth                                       |             | +                     |                       |                       |                       | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | +                     |                       | 10                    |                       |                       |                       |                       |                 |  |                       |                       |
| <b>CARDIOVASCULAR SYSTEM</b>                |             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                 |  |                       |                       |
| Blood Vessel                                |             | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                 |  |                       |                       |
| Heart                                       |             | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                 |  |                       |                       |
| Endocardium, Schwannoma Benign              |             | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                 |  |                       |                       |
| <b>ENDOCRINE SYSTEM</b>                     |             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                 |  |                       |                       |
| Adrenal Cortex                              |             | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                 |  |                       |                       |
| Adenoma                                     |             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                 |  |                       |                       |
| Lymphoma Malignant                          |             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                 |  |                       |                       |
| Subcapsular, Adenoma                        |             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     |                       |                       |                       |                 |  |                       |                       |
| Adrenal Medulla                             |             | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                 |  |                       |                       |
| Islets, Pancreatic                          |             | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                 |  |                       |                       |
| Parathyroid Gland                           |             | +                     |                       | +                     |                       | M                     | +                     | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | M                     | M                     | +                     | M                     | M                     | +                     | M                     | M                     | +                     | M                     | 28              |  |                       |                       |

\* .. 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
|                              | ANIMAL ID   | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |          |
|                              |             | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 5 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 2 |          |
|                              |             | 0 | 0 | 9 | 8 | 1 | 9 | 0 | 8 | 0 | 6 | 0 | 9 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 9 |          |
|                              |             | 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 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |          |
|                              |             | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 |          |

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Thyroid Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Epididymis                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Preputial Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma        |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Prostate                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Seminal Vesicle            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Testes                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Interstitial Cell, Adenoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1  |

**HEMATOPOIETIC SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymph Node, Bronchial  | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | M | I | + | + | + | + | 37 |
| Lymphoma Malignant     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | + | + | + | + | M | M | M | M | M | + | + | + | + | + | + | M | + | 27 |

\* .. 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 | 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 | * TOTALS |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
|  | ANIMAL ID   | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |          |
| Lymph Node, Mediastinal                      |             | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 5 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 35       |
| Lymph Node, Mesenteric<br>Lymphoma Malignant |             | 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 | 49<br>2  |
| Spleen<br>Lymphoma Malignant                 |             | 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 | 50<br>2  |
| Thymus                                       |             | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 44       |
| <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 | 3        |
| Skin   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50       |
| Subcutaneous Tissue, Histiocytic Sarcoma     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Subcutaneous Tissue, Lymphoma Malignant      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| <b>MUSCULOSKELETAL SYSTEM</b>                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
| Bone   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50       |
| Osteoma                                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Skeletal Muscle                              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| <b>NERVOUS SYSTEM</b>                        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
| Brain  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50       |
| Peripheral Nerve                             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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

| 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 | * TOTALS |
|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
|                  | ANIMAL ID   | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 |          |
| 10 mg/m3         |             | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 5 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |          |
|                  |             | 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 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |          |
|                  |             | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1        |

Spinal Cord 1

RESPIRATORY SYSTEM

Larynx + + + + + + + + + + + I + + + + + + + + + + + + + + 49

Lung + 50

Alveolar/Bronchiolar Adenoma X X X X X X X X X X X 7

Alveolar/Bronchiolar Adenoma, Multiple 1

Alveolar/Bronchiolar Carcinoma X X X 8

Hepatocellular Carcinoma, Metastatic, Liver X X X 5

Lymphoma Malignant 2

Mediastinum, Hepatocellular Carcinoma, Metastatic, Liver 1

Nose + 50

Pleura + 1

Trachea + 50

SPECIAL SENSES SYSTEM

Eye + 50

Harderian Gland + 50

Adenoma X X X 5

Carcinoma X X X 3

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

| B6C3F1 MICE MALE<br>10 mg/m3                                | DAY ON TEST | 00 | 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 | * TOTALS     |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------|
|   | ANIMAL ID   | 00 | 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 |              |
|   |             | 00 | 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 |              |
| Kidney<br>Lymphoma Malignant                                | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 50<br>2      |
| Urinary Bladder   | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 50           |
| <b>SYSTEMIC LESIONS</b>                                     |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |              |
| Multiple Organ<br>Histiocytic Sarcoma<br>Lymphoma Malignant | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | X  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 50<br>1<br>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

| B6C3F1 MICE MALE<br>30 mg/m3 | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | males<br>(cont...) |      |   |  |
|------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|---|--|
|                              | 0729        | 0729 | 0730 | 0662 | 0773 | 0776 | 0667 | 0770 | 0559 | 0553 | 0777 | 0776 | 0667 | 0773 | 0777 | 0773 | 0777 | 0777 | 0777 | 0666 | 0337 | 0777 |                    | 0779 |   |  |
| ANIMAL ID                    | 0040        | 0004 | 0000 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0000 | 0000 | 0000 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004               |      |   |  |
|                              | 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                        | + | M | + | A | + | + | + | + | + | A | + | + | A | + | + | + | A | + | M | + | M | M | M | + | + |   |
| Lymphoma Malignant                 |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Large, Cecum             | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Colon             | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymphoma Malignant                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Large, Rectum            | + | + | + | + | + | + | + | I | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Small, Duodenum          | + | + | + | A | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Intestine Small, Ileum             | + | + | + | + | + | + | A | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymphoma Malignant                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Small, Jejunum           | + | + | + | + | + | + | A | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + |   |
| Lymphoma Malignant                 |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Liver                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hemangiosarcoma, Multiple          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatoblastoma                     |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   | X | X |   |
| Hepatocellular Adenoma             |   |   | X |   |   | X |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   | X |   | X | X |   |
| Hepatocellular Adenoma, Multiple   | X |   | X |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   | X |   | X | X |   |
| Hepatocellular Carcinoma           |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   | X |   | X | X |   |
| Hepatocellular Carcinoma, Multiple |   |   |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocholangiocarcinoma           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. 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

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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> | <b>DAY ON TEST</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |                    | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 3 | 7 | 7 |
|                         |                    | 2 | 2 | 3 | 6 | 3 | 3 | 4 | 3 | 4 | 8 | 3 | 3 | 9 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 4 | 2 | 2 |
| <b>30 mg/m3</b>         | <b>ANIMAL ID</b>   | 9 | 9 | 0 | 2 | 0 | 1 | 7 | 0 | 9 | 3 | 0 | 0 | 4 | 1 | 1 | 1 | 9 | 1 | 9 | 0 | 1 | 7 | 4 |
|                         |                    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |                    | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|                         |                    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 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 |   |
|                         |                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**males (cont...)**

### ENDOCRINE SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                         | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Adenoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Lymphoma Malignant                     |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcapsular, Adenoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Adrenal Medulla                        | + | + | + | + | + | M | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic                     | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant, Metastatic, Spleen |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Parathyroid Gland                      | + | + | + | + | + | M | M | + | M | + | + | M | + | + | M | + | + | + | + | + | + | + | + |
| Pituitary Gland                        | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland                          | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |

### GENERAL BODY SYSTEM

NONE

### GENITAL SYSTEM

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis         | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |
| Preputial Gland    | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Prostate           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. 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  
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 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...) |      |   |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|---|
|  | ANIMAL ID   | 0040 | 0004 | 0000 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 |           |                    | 0004 |   |
| Lymphoma Malignant                                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | X                  |      |   |
| Seminal Vesicle                                    |             | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                    |      |   |
| Lymphoma Malignant                                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | X                  |      |   |
| Testes   |             | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                    |      |   |
| <b>HEMATOPOIETIC SYSTEM</b>                        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |   |
| Bone Marrow  |             | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                    |      |   |
| Schwannoma Malignant, Metastatic, Peripheral Nerve |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |   |
| Lymph Node   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |   |
| Iliac, Lymphoma Malignant                          |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | +                  |      |   |
| Pancreatic, Lymphoma Malignant                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | X                  |      |   |
| Pancreatic, Sarcoma, Metastatic, Mesentery         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | X                  |      |   |
| 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    | +    | +    | M         | M                  | +    |   |
| Lymphoma Malignant                                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | X                  |      |   |
| Lymph Node, Mediastinal                            |             | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | M    | M    | +    | +    | +    | +    | +    | +    | +    | I         | +                  | +    | + |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |   |

\* .. 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 | 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 |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                              |             | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 3 | 7 | 7 | 7 |
|                              |             | 2 | 2 | 3 | 6 | 3 | 3 | 4 | 3 | 4 | 8 | 3 | 3 | 9 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 4 | 2 | 2 | 2 |   |
|                              |             | 9 | 9 | 0 | 2 | 0 | 1 | 7 | 0 | 9 | 3 | 0 | 0 | 4 | 1 | 1 | 1 | 9 | 1 | 9 | 0 | 1 | 7 | 4 | 9 |   |
|                              | ANIMAL ID   | 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 |
|                              |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|                              |             | 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 |

males  
(cont...)

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

## INTEGUMENTARY SYSTEM

Mammary Gland

M M

Skin

+ +

Lymphoma Malignant

X

Subcutaneous Tissue, Hemangiosarcoma

X

## MUSCULOSKELETAL SYSTEM

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  
 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 | 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<br>(cont...) |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
|                              | 7           | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 3 | 7 | 7 | 2 | 2 |           |                    |
|                              | 2           | 2 | 3 | 6 | 3 | 3 | 4 | 3 | 4 | 8 | 3 | 3 | 9 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 9 | 4 | 2 | 2 | 2 | 9 |           |                    |
|                              | 9           | 9 | 0 | 2 | 0 | 1 | 7 | 0 | 9 | 3 | 0 | 0 | 4 | 1 | 1 | 1 | 9 | 1 | 9 | 0 | 1 | 7 | 4 | 9 | 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 |           |                    |
|                              | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |           |                    |
|                              | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 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 |   |           |                    |

Schwannoma Malignant, Metastatic, Peripheral Nerve

### NERVOUS SYSTEM

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain                | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Spinal Cord          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

### RESPIRATORY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lung   | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma                       | X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Alveolar/Bronchiolar Carcinoma                     |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Alveolar/Bronchiolar Carcinoma, Multiple           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Hepatoblastoma, Metastatic, Liver                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Hepatocellular Carcinoma, Metastatic, Liver        |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocholangiocarcinoma, Metastatic, Liver        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Schwannoma Malignant, Metastatic, Peripheral Nerve |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bronchiole, Epithelium, Adenoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea  | + | + | + | + | + | + | + | + | + | + | + | I | + | 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

|                         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                            |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|
| <b>B6C3F1 MICE MALE</b> | DAY ON TEST | 0729 | 0729 | 0730 | 0662 | 0773 | 0674 | 0770 | 0554 | 0553 | 0773 | 0676 | 0773 | 0677 | 0773 | 0773 | 0772 | 0773 | 0773 | 0663 | 0374 | 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 |                            |

**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  
 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 | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |
|------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
|                  | 0697        | 0731  | 0729  | 0730  | 0640  | 0731  | 0672  | 0779  | 0771  | 0773  | 0777  | 0772  | 0533  | 0773  | 0770  | 0773  | 0772  | 0773  | 0773  | 0772  | 0779  | 0771  | 0770  | 0777  |          | 0773  |
| 30 mg/m3         | 00426       | 00427 | 00428 | 00429 | 00430 | 00431 | 00432 | 00433 | 00434 | 00435 | 00436 | 00437 | 00438 | 00439 | 00440 | 00441 | 00442 | 00443 | 00444 | 00445 | 00446 | 00447 | 00448 | 00449 | 00450    | 00451 |
|                  | 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        | 0     |

ALIMENTARY SYSTEM

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder                        | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 39 |
| Lymphoma Malignant                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Large, Cecum             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 47 |
| Intestine Large, Colon             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 48 |
| Lymphoma Malignant                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Large, Rectum            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 46 |
| Intestine Small, Duodenum          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 45 |
| Intestine Small, Ileum             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Small, Jejunum           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 45 |
| Lymphoma Malignant                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Liver                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma, Multiple          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 1  |
| Hepatoblastoma                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4  |
| Hepatocellular Adenoma             |   |   |   | X |   |   |   |   | X |   |   | X |   |   | X |   | X |   | X |   |   | X |   |   |   | 12 |
| Hepatocellular Adenoma, Multiple   |   | X | X |   |   |   |   |   |   |   | X |   | X |   |   | X |   | X |   | X |   |   | X |   |   | 14 |
| Hepatocellular Carcinoma           |   | X |   |   |   |   |   |   |   | X | X |   |   |   |   | X |   |   | X |   |   |   |   | X |   | 11 |
| Hepatocellular Carcinoma, Multiple |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |
| Hepatocholeangiocarcinoma          |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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 MALE<br>30 mg/m3                     | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|  | 0697        | 0731  | 0779  | 0773  | 0764  | 0773  | 0671  | 0672  | 0771  | 0771  | 0771  | 0771  | 0771  | 0573  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  |          |
| ANIMAL ID  | 00426       | 00442 | 00442 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 |          |
| Sarcoma, Metastatic, Mesentery                   |             |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |
| Mesentery  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Hemangiosarcoma                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Sarcoma  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Pancreas   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Salivary Glands                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Stomach, Forestomach                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Squamous Cell Papilloma                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Stomach, Glandular                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Sarcoma, Metastatic, Mesentery                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Tooth  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| <b>CARDIOVASCULAR SYSTEM</b>                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Blood Vessel                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Aorta, Lymphoma Malignant, Metastatic, Spleen    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Heart  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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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><br>30 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 | * TOTALS |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
|                                  | ANIMAL ID   | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |          |
|                                  |             | 6 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |          |
|                                  |             | 9 | 3 | 2 | 3 | 4 | 3 | 1 | 2 | 1 | 3 | 3 | 2 | 2 | 3 | 3 | 7 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 3 |          |
|                                  |             | 7 | 1 | 9 | 0 | 0 | 1 | 2 | 9 | 1 | 0 | 0 | 9 | 3 | 0 | 2 | 1 | 9 | 9 | 1 | 0 | 3 | 2 | 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 |          |
|                                  |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |          |
|                                  |             | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 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 |          |

**ENDOCRINE SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Adrenal Cortex                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 49 |
| Adenoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |
| Lymphoma Malignant                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |
| Subcapsular, Adenoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |
| Adrenal Medulla                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 48 |
| Islets, Pancreatic                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | +  | 48 |
| Lymphoma Malignant, Metastatic, Spleen |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 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         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Preputial Gland    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 48 |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Prostate           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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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

| B6C3F1 MICE MALE<br>30 mg/m3                       | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |         |  |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|---------|--|
|  | 0697        | 0731  | 0729  | 0730  | 0764  | 0771  | 0766  | 0772  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  |          |         |  |
| ANIMAL ID  | 00426       | 00442 | 00442 | 00442 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444    |         |  |
| Lymphoma Malignant                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1       |  |
| Seminal Vesicle<br>Lymphoma Malignant              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50<br>2 |  |
| Testes   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 49      |  |
| <b>HEMATOPOIETIC SYSTEM</b>                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |         |  |
| Bone Marrow  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 49      |  |
| Schwannoma Malignant, Metastatic, Peripheral Nerve |             |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1       |  |
| Lymph Node   |             |       |       |       |       |       |       |       | +     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 3       |  |
| Iliac, Lymphoma Malignant                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1       |  |
| Pancreatic, Lymphoma Malignant                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1       |  |
| Pancreatic, Sarcoma, Metastatic, Mesentery         |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1       |  |
| Renal, Lymphoma Malignant                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1       |  |
| Renal, Sarcoma, Metastatic, Mesentery              |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1       |  |
| Lymph Node, Bronchial                              | +           | +     | M     | +     | M     | +     | +     | I     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | M     | +     | +     | +     | M     | +        | 39      |  |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung   |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2       |  |
| Lymphoma Malignant                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2       |  |
| Lymph Node, Mandibular                             | I           | M     | M     | +     | M     | +     | M     | +     | I     | +     | M     | M     | +     | M     | +     | M     | M     | M     | +     | +     | +     | +     | +     | M     | M        | 25      |  |
| Lymphoma Malignant                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1       |  |
| Lymph Node, Mediastinal                            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | I     | +     | +     | +     | +     | M     | I     | +     | I     | +        | 41      |  |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung   |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1       |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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Date Report Requested: 02/02/2015  
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 Lab: BNW

| B6C3F1 MICE MALE<br>30 mg/m3                     | DAY ON TEST | 0697  | 0731  | 0729  | 0730  | 0761  | 0772  | 0773  | 0774  | 0775  | 0776  | 0777  | 0778  | 0779  | 0780  | 0781  | 0782  | 0783  | 0784  | 0785  | 0786  | 0787  | 0788  | 0789  | 0790  | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|  | ANIMAL ID   | 00426 | 00447 | 00448 | 00449 | 00450 | 00451 | 00452 | 00453 | 00454 | 00455 | 00456 | 00457 | 00458 | 00459 | 00460 | 00461 | 00462 | 00463 | 00464 | 00465 | 00466 | 00467 | 00468 | 00469 |          |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Lymph Node, Mesenteric Hemangioma                |             | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 47       |
| Histiocytic Sarcoma                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       | 2        |
| Sarcoma, Metastatic, Mesentery                   |             |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Spleen   |             | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49       |
| Histiocytic Sarcoma                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       | 3        |
| Thymus   |             | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 47       |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 2        |
| <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     | 0        |
| Skin   |             | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Subcutaneous Tissue, Hemangiosarcoma             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| <b>MUSCULOSKELETAL SYSTEM</b>                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Bone   |             | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Skeletal Muscle                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |
| Sarcoma, Metastatic, Mesentery                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |

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**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
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**CAS Number:** TRIMVX

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

| B6C3F1 MICE MALE<br>30 mg/m3 | DAY ON TEST | ANIMAL ID |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   | * TOTALS |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------|-------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                              |             | 00697     | 00732 | 00723 | 00764 | 00773 | 00761 | 00772 | 00771 | 00773 | 00777 | 00777 | 00772 | 00772 | 00772 | 00777 | 00773 | 00773 | 00773 | 00777 | 00777 | 00773 | 00773 |       |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                              |             | 00042     | 00042 | 00042 | 00042 | 00042 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                              |             | 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 |

Schwannoma Malignant, Metastatic, Peripheral Nerve

X

1

**NERVOUS SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Brain                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49     |
| Peripheral Nerve<br>Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1<br>1 |
| Spinal Cord                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1      |

**RESPIRATORY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Larynx   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lung   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Alveolar/Bronchiolar Adenoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5  |
| Alveolar/Bronchiolar Carcinoma                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 7  |
| Alveolar/Bronchiolar Carcinoma, Multiple           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Hepatoblastoma, Metastatic, Liver                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Hepatocellular Carcinoma, Metastatic, Liver        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4  |
| Hepatocholangiocarcinoma, Metastatic, Liver        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Schwannoma Malignant, Metastatic, Peripheral Nerve |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Bronchiole, Epithelium, Adenoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Trachea  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |

\* .. 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 | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  | * TOTALS |
|------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|----------|
|                  | 0697        | 0731  | 0729  | 0730  | 0674  | 0731  | 0672  | 0771  | 0772  | 0773  | 0772  | 0773  | 0573  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  |  |          |
| 30 mg/m3         | ANIMAL ID   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |          |
|                  | 00426       | 00442 | 00442 | 00442 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 |  |          |
|                  | 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           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |  |          |
|                  | 9           | 3     | 2     | 3     | 4     | 3     | 1     | 2     | 1     | 3     | 3     | 2     | 2     | 3     | 3     | 7     | 3     | 2     | 2     | 3     | 2     | 2     | 3     | 3     |  |          |
|                  | 7           | 1     | 9     | 0     | 0     | 1     | 2     | 9     | 1     | 0     | 0     | 9     | 9     | 3     | 0     | 2     | 1     | 9     | 9     | 1     | 0     | 9     | 9     | 0     |  |          |

**SPECIAL SENSES SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenoma         |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |
| Carcinoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   | 2  |

**URINARY SYSTEM**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Urethra            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Urinary Bladder    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

**SYSTEMIC LESIONS**

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 3  |

\* .. 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 | 0537 | 0723 | 0733 | 0422 | 0714 | 0574 | 0754 | 0773 | 0773 | 0773 | 0773 | 0676 | 0777 | 0777 | 0773 | 0576 | 0677 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | ANIMAL ID | males<br>(cont...) |  |
|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|--|
|                               | 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 |           |                    |  |
|                               |             | 61   | 62   | 63   | 64   | 65   | 66   | 67   | 68   | 69   | 70   | 71   | 72   | 73   | 74   | 75   | 76   | 77   | 78   | 79   | 80   | 81   | 82   | 83   | 84   | 85        |                    |  |

**ALIMENTARY SYSTEM**

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

\* .. 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 | 0537 | 0773 | 0474 | 0757 | 0578 | 0773 | 0777 | 0777 | 0777 | 0777 | 0676 | 0777 | 0777 | 0773 | 0576 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | ANIMAL ID | males<br>(cont...) |   |  |  |
|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|---|--|--|
|                               | 0000        | 0000 | 0000 | 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 |  |  |

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

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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  
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 Lab: BNW

|                         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                            |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|
| <b>B6C3F1 MICE MALE</b> | DAY ON TEST | 0730 | 0537 | 0723 | 0733 | 0421 | 0744 | 0578 | 0771 | 0770 | 0771 | 0772 | 0772 | 0779 | 0645 | 0779 | 0771 | 0677 | 0663 | 0733 | 0733 | 0730 | 0731 | 0738 | 0730 | <b>males<br/>(cont...)</b> |
|                         | 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 |                            |

Thyroid Gland +

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis +  
 Preputial Gland +  
 Prostate +  
 Seminal Vesicle +  
 Testes +

**HEMATOPOIETIC SYSTEM**

Bone Marrow +  
 Lymph Node Renal, Fibrous Histiocytoma + X  
 Lymph Node, Bronchial M + + M M + + + M + + M M + + + + + + M + + + + +  
 Hepatoblastoma, Metastatic, Liver X  
 Hepatocellular Carcinoma, Metastatic, Liver X  
 Lymph Node, Mandibular I + M + M M + + M M M M M M I 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  
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 Lab: BNW

| B6C3F1 MICE MALE<br>100 mg/m3  | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |      |      |   |   |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|---|---|
|  | 0730        | 0737 | 0772 | 0773 | 0774 | 0775 | 0777 | 0778 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 |           |                    | 0779 | 0779 |   |   |
| Lymph Node, Mediastinal<br>Hepatoblastoma, Metastatic, Liver   | +           | +    | M    | M    | I    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  | +    | +    | X |   |
| Lymph Node, Mesenteric<br>Fibrous Histiocytoma<br>Hemangioma<br>Hemangiosarcoma<br>Hepatoblastoma, Metastatic, Liver<br>Lymphoma Malignant | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  | +    | +    | + | + |
| Spleen<br>Lymphoma Malignant   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  | +    | +    | + |   |
| Thymus<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | 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    | M    | M | M |
| Skin<br>Fibrous Histiocytoma<br>Subcutaneous Tissue, Histiocytic Sarcoma   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  | +    | +    | + | + |
| <b>MUSCULOSKELETAL SYSTEM</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |      |   |   |
| Bone   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  | +    | +    | + | + |
| Skeletal Muscle  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |      |   | + |

\* .. 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 | 0722 | 0733 | 0421 | 0744 | 0578 | 0771 | 0770 | 0771 | 0772 | 0772 | 0779 | 0645 | 0722 | 0722 | 0731 | 0577 | 0663 | 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 | 0730 | 0537 | 0723 | 0733 | 0422 | 0714 | 0574 | 0753 | 0773 | 0773 | 0773 | 0773 | 0676 | 0774 | 0773 | 0773 | 0576 | 0673 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | males<br>(cont...) |
|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
|                               | 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 |                    |

Carcinoma, Metastatic, Harderian Gland

X

Harderian Gland  
 Adenoma  
 Adenoma, Multiple  
 Carcinoma

+  
 X  
 X  
 X

**URINARY SYSTEM**

Kidney  
 Hepatoblastoma, Metastatic, Liver

+  
 X

Urinary Bladder

+ +

**SYSTEMIC LESIONS**

Multiple Organ  
 Histiocytic Sarcoma  
 Lymphoma Malignant

+ +

\* .. 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  
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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

|                         | DAY ON TEST | 0731  | 0732  | 0733  | 0731  | 0732  | 0733  | 0731  | 0732  | 0733  | 0731  | 0732  | 0733  | 0731  | 0732  | 0733  | 0731  | 0732  | 0733  | 0731  | 0732  | 0733  | 0731  | 0732  | 0733  | 0731  | 0732  | 0733  | 0731  | 0732  | 0733  | 0731  | 0732  | 0733  | 0731  | 0732  | 0733  |       |       |                 |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| <b>B6C3F1 MICE MALE</b> |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                 |
| <b>100 mg/m3</b>        | ANIMAL ID   | 00626 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 |                 |
|                         |             | 678   | 789   | 890   | 901   | 012   | 123   | 234   | 345   | 456   | 567   | 678   | 789   | 890   | 901   | 012   | 123   | 234   | 345   | 456   | 567   | 678   | 789   | 890   | 901   | 012   | 123   | 234   | 345   | 456   | 567   | 678   | 789   | 890   | 901   | 012   | 123   | 456   | 789   | <b>* TOTALS</b> |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                       |           |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------|-----------|
| Esophagus                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                     | <b>50</b> |
| Gallbladder                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                     | <b>42</b> |
| Intestine Large, Cecum                       | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                     | <b>46</b> |
| Intestine Large, Colon                       | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                     | <b>48</b> |
| Intestine Large, Rectum                      | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                     | <b>45</b> |
| Intestine Small, Duodenum                    | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                     | <b>44</b> |
| Intestine Small, Ileum<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + |   | X |   |   |   |   |   |   |   |   |   | <b>43</b><br><b>1</b> |           |
| Intestine Small, Jejunum                     | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                     | <b>44</b> |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                     | <b>50</b> |
| Fibrous Histiocytoma                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                       | <b>1</b>  |
| Hepatoblastoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                       | <b>2</b>  |
| Hepatocellular Adenoma                       |   |   | X | X |   |   |   |   | X | X |   |   | X |   |   |   |   |   |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |                       | <b>12</b> |
| Hepatocellular Adenoma, Multiple             | X | X |   |   | X | X | X | X |   |   | X |   |   | X |   | X |   | X | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |                       | <b>24</b> |
| Hepatocellular Carcinoma                     |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                       | <b>8</b>  |
| Hepatocellular Carcinoma, Multiple           |   |   |   | X |   |   |   |   | X |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                       | <b>13</b> |
| Mesentery                                    |   |   |   |   |   |   |   | + |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                       | <b>2</b>  |
| Pancreas                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                     | <b>50</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 MALE<br>100 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 | * TOTALS  |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
|  | ANIMAL ID   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |
|  |             | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 3 | 6 | 8 | 7 | 3 | 2 | 2 | 3 | 3 | 2 | 3 |           |
|  |             | 1 | 0 | 9 | 0 | 1 | 9 | 9 | 1 | 3 | 0 | 9 | 9 | 1 | 7 | 0 | 5 | 0 | 9 | 9 | 0 | 1 | 1 | 9 |           |
|  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |
|  |             | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |           |
|  |             | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |           |
|  |             | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | <b>1</b>  |
| Fibrous Histiocytoma                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Salivary Glands                              |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Stomach, Forestomach Squamous Cell Papilloma |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Stomach, Glandular                           |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Tooth  |             | + | + |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   | + | + | <b>5</b>  |
| <b>CARDIOVASCULAR SYSTEM</b>                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Blood Vessel                                 |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Heart  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| <b>ENDOCRINE SYSTEM</b>                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Adrenal Cortex                               |             | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | <b>49</b> |
| Adenoma                                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Subcapsular, Adenoma                         |             | X | X |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   | <b>6</b>  |
| Adrenal Medulla                              |             | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | <b>49</b> |
| Islets, Pancreatic                           |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Parathyroid Gland                            |             | M | M | + | + | M | M | + | + | M | + | + | + | + | M | M | + | + | + | + | + | M | + | + | <b>34</b> |
| Carcinoma                                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | <b>1</b>  |
| Pituitary Gland                              |             | + | + | + | + | M | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | <b>48</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 MALE<br>100 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 | * TOTALS |   |   |   |   |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|---|
|   |             | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |          |   | 7 | 7 | 7 |
|   |             | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 3 | 6 | 8 | 7 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 |          |   | 3 | 3 | 0 |
| ANIMAL ID   | 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 |   |   |
| Lymph Node, Mediastinal<br>Hepatoblastoma, Metastatic, Liver  | M           | M | M | + | + | + | + | + | M | + | + | + | + | + | A | + | M | + | + | + | + | + | + | + | + | + | 40<br>1  |   |   |   |   |
| Lymph Node, Mesenteric<br>Fibrous Histiocytoma                | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | A | M | + | + | + | + | + | + | + | + | + | + | 48<br>1  |   |   |   |   |
| Hemangioma  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1        |   |   |   |   |
| Hemangiosarcoma   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 2        |   |   |   |   |
| Hepatoblastoma, Metastatic, Liver                             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |   |   |   |   |
| Lymphoma Malignant  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 1        |   |   |   |   |
| Spleen<br>Lymphoma Malignant                                  | +           | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | X |   |   |   | 50<br>2  |   |   |   |   |
| Thymus<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung | +           | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | X | 46<br>1  |   |   |   |   |
| <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 | M | M | M        | 0 |   |   |   |
| Skin<br>Fibrous Histiocytoma                                  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50<br>1  |   |   |   |   |
| Subcutaneous Tissue, Histiocytic Sarcoma                      |             |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |   |   |   |   |
| <b>MUSCULOSKELETAL SYSTEM</b>                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |
| Bone  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50       |   |   |   |   |
| Skeletal Muscle   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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 MALE | DAY ON TEST | 0731  | 0730  | 0729  | 0728  | 0727  | 0726  | 0725  | 0724  | 0723  | 0722  | 0721  | 0720  | 0719  | 0718  | 0717  | 0716  | 0715  | 0714  | 0713  | 0712  | 0711  | 0710  | 0709  | 0708  | 0707  | 0706  | 0705  | 0704  | 0703  | 0702  | 0701  | 0700  | * TOTALS |
|                  | ANIMAL ID   | 00626 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 |          |
|                  | 100 mg/m3   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |

NERVOUS SYSTEM

|                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Brain            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |
| Peripheral Nerve |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 |
| Spinal Cord      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 |

RESPIRATORY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|---|
| Larynx                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |    |   |
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |   |
| Alveolar/Bronchiolar Adenoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 6  |   |
| Alveolar/Bronchiolar Adenoma, Multiple      |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3  |   |
| Alveolar/Bronchiolar Carcinoma              |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 9  |   |
| Alveolar/Bronchiolar Carcinoma, Multiple    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 8  |   |
| Carcinoma, Metastatic, Harderian Gland      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |   |
| Hepatoblastoma, Metastatic, Liver           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |   |
| Hepatocellular Carcinoma, Metastatic, Liver |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 6 |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |   |
| Carcinoma, Metastatic, Harderian Gland      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 1 |
| Pleura                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 1 |
| Trachea                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 48 |   |

SPECIAL SENSES SYSTEM

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

\* .. 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  | 0730  | 0729  | 0728  | 0727  | 0726  | 0725  | 0724  | 0723  | 0722  | 0721  | 0720  | 0719  | 0718  | 0717  | 0716  | 0715  | 0714  | 0713  | 0712  | 0711  | 0710  | 0709  | 0708  | 0707  | 0706  | 0705  | 0704  | 0703  | 0702  | 0701  | 0700 | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----------|
|  | ANIMAL ID   | 00626 | 00662 | 00662 | 00662 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 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     |       |       |       |       |       |       | 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 | 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 |                              | 0011 |
|                           |                |           | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |                              | 1100 |

**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

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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 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 | 0010 | 0011 | 0010 | 0011 | 0010 | 0011 | 0010 | 0011 | 0010 | 0011 | 0010 | 0011 | 0010 | 0011 | 0010 | 0011 | 0010 | 0011 | 0010 |
|                               |             | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
|                               |             | 2    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    |

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 | + | + | + | M |
| Adenoma                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pituitary Gland                           | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | M |
| Pars Distalis, Adenoma                    |   |   |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   |   |
| Pars Distalis, Carcinoma                  | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Thyroid Gland                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                        |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| C-cell, Carcinoma                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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

| B6C3F1 MICE FEMALE | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |  | 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>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>2 | 0<br>7<br>3<br>1 | 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>4 |  |                      |
| Control            | ANIMAL ID        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |  |                      |
|                    | 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                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                |  |                      |
|                    | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 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                |  |                      |

**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  
 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 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
|   | 0733        | 0573 | 0773 | 0595 | 0553 | 0773 | 0773 | 0773 | 0773 | 0572 | 0733 | 0733 | 0733 | 0633 | 0772 | 0773 | 0773 | 0473 | 0769 | 0673 | 0773 | 0773 | 0673 |      |                      |
| 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 |                      |
| Lumbar, Lymphoma Malignant                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |                      |
| Pancreatic, Histiocytic Sarcoma             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |                      |
| 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    |                      |

\* .. 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females<br>(cont...) |   |  |
|-------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|--|
|                               | ANIMAL ID   | 7 | 5 | 7 | 5 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 7 |                      | 6 |  |
|                               |             | 3 | 7 | 3 | 9 | 5 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 9 | 3 | 3 | 3 | 4 |                      |   |  |
|                               |             | 3 | 5 | 1 | 7 | 0 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 | 2 | 1 | 2 | 4 | 3 | 2 | 1 | 5                    |   |  |
|                               |             | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                    |   |  |
|                               |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 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 |  |

**INTEGUMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland<br>Lymphoma Malignant, Metastatic, Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**MUSCULOSKELETAL SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Skeletal Muscle |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |

**NERVOUS SYSTEM**

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Peripheral Nerve            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Spinal Cord                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |

**RESPIRATORY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx<br>Lymphoma Malignant             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lung<br>Alveolar/Bronchiolar Adenoma     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Carcinoma           |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |
| Alveolar/Bronchiolar Carcinoma, Multiple |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

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 + .. 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      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       | 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>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 |                       |           |                      |  |
|                                      | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0<br>0<br>1<br>0<br>1 |           |                      |  |
| 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  
 + .. 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 | 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 |   |
|---------------------|--|-------------|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Control             |  | ANIMAL ID   | 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 |
|                     |  |             | 7                        | 5 | 7 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 4 |   |
|                     |  |             | 3                        | 7 | 3 | 9 | 5 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |   |
|                     |  |             | 3                        | 5 | 1 | 7 | 0 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 2 | 4 | 2 | 4 | 3 | 2 | 4 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 |   |
|                     |  |             | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |
|                     |  |             | 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                        | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |
|                     |  |             | <b>females (cont...)</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Multiple Organ      |  |             | +                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Histiocytic Sarcoma |  |             |                          |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant  |  |             |                          | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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Experiment Number: 20523 - 04  
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 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 | 0721 | 0733 | 0737 | 0771 | 0773 | 0773 | 0764 | 0773 | 0773 | 0773 | 0735 | 0773 | 0773 | 0773 | 0766 | 0773 | 0768 | 0773 | 0767 | 0773 | 0767 |          |
| 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  | 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  | 000      |

|                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |    |
|-------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|----|
| Mesentery               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |    |
| Lymphoma Malignant      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 2  |
| Pancreas                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 50 |
| Histiocytic Sarcoma     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 3  |
| Lymphoma Malignant      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 6  |
| Salivary Glands         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 50 |
| Histiocytic Sarcoma     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1  |
| Lymphoma Malignant      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 2  |
| Stomach, Forestomach    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 50 |
| Lymphoma Malignant      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 2  |
| Squamous Cell Papilloma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1  |
| Stomach, Glandular      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 49 |
| Lymphoma Malignant      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 2  |

**CARDIOVASCULAR SYSTEM**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Blood Vessel   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |
| Aorta, Hemangiosarcoma                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  |
| Aorta, Lymphoma Malignant, Metastatic, Lung                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  |
| Aorta, Lymphoma Malignant, Metastatic, Lymph Node, Bronchial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  |
| Aorta, Lymphoma Malignant, Metastatic, Spleen                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  |
| Heart  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |
| Histiocytic Sarcoma  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  |
| Histiocytic Sarcoma, Metastatic, Liver                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  |

\* .. 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  
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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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|                               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| B6C3F1 MICE FEMALE<br>Control | DAY ON TEST | 0731 | 0733 | 0733 | 0721 | 0773 | 0763 | 0773 | 0764 | 0773 | 0773 | 0773 | 0733 | 0773 | 0773 | 0773 | 0773 | 0766 | 0773 | 0773 | 0766 | 0773 | 0767 | 0773 | 0767 | 0773 | * TOTALS |
|                               | ANIMAL ID   | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 |          |
|                               |             | 6789 | 012  | 012  | 012  | 012  | 012  | 012  | 012  | 012  | 012  | 012  | 012  | 012  | 012  | 012  | 012  | 012  | 012  | 012  | 012  | 012  | 012  | 012  | 012  | 012  |          |

**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  |

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 X .. Lesion present  
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 Lab: BNW

| B6C3F1 MICE FEMALE<br>Control | DAY ON TEST | ANIMAL ID             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                  |
|-------------------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|
|                               |             | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>2<br>1      | 0<br>7<br>3<br>1      | 0<br>6<br>7<br>3      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>6<br>7<br>2      | 0<br>7<br>3<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>3<br>5<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>6<br>7<br>3      | 0<br>7<br>6<br>3      | 0<br>6<br>8<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>6<br>2<br>8      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      |                       | 0<br>7<br>3<br>2 |
|                               |             | 0<br>0<br>1<br>2<br>6 | 0<br>0<br>1<br>2<br>7 | 0<br>0<br>1<br>2<br>8 | 0<br>0<br>1<br>2<br>9 | 0<br>0<br>1<br>3<br>0 | 0<br>0<br>1<br>3<br>1 | 0<br>0<br>1<br>3<br>2 | 0<br>0<br>1<br>3<br>3 | 0<br>0<br>1<br>3<br>4 | 0<br>0<br>1<br>3<br>5 | 0<br>0<br>1<br>3<br>6 | 0<br>0<br>1<br>3<br>7 | 0<br>0<br>1<br>3<br>8 | 0<br>0<br>0<br>4<br>0 | 0<br>0<br>1<br>4<br>1 | 0<br>0<br>1<br>4<br>2 | 0<br>0<br>1<br>4<br>3 | 0<br>0<br>1<br>4<br>4 | 0<br>0<br>1<br>4<br>5 | 0<br>0<br>1<br>4<br>6 | 0<br>0<br>1<br>4<br>7 | 0<br>0<br>1<br>4<br>8 | 0<br>0<br>1<br>4<br>9 | 0<br>0<br>1<br>4<br>9 | 0<br>0<br>1<br>5<br>0 |                  |

**INTEGUMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Mammary Gland                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Lymphoma Malignant, Metastatic, Spleen |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Skin                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |

**MUSCULOSKELETAL SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Skeletal Muscle |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   | <b>3</b>  |

**NERVOUS SYSTEM**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Brain              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Lymphoma Malignant |   |   |   |   |   |   |   |   | X |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Peripheral Nerve   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   | <b>3</b>  |
| Spinal Cord        |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |

**RESPIRATORY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Larynx                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Lymphoma Malignant                       |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Lung                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Alveolar/Bronchiolar Adenoma             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | <b>4</b>  |
| Alveolar/Bronchiolar Carcinoma           |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Alveolar/Bronchiolar Carcinoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</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 |  |
|--------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
|                                      | 0731        | 0733  | 0733  | 0721  | 0733  | 0773  | 0763  | 0773  | 0763  | 0773  | 0763  | 0773  | 0733  | 0773  | 0773  | 0773  | 0763  | 0773  | 0763  | 0773  | 0763  | 0773  | 0763  | 0773  |          |  |
| Control                              | ANIMAL ID   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |  |
|                                      | 00126       | 00017 | 00018 | 00019 | 00010 | 00011 | 00012 | 00013 | 00014 | 00015 | 00016 | 00017 | 00018 | 00019 | 00020 | 00021 | 00022 | 00023 | 00024 | 00025 | 00026 | 00027 | 00028 | 00029 |          |  |
| 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

|                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |    |  |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|----|--|
| <b>B6C3F1 MICE FEMALE</b> | 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 | 0 | <b>* TOTALS</b> |    |  |
|                           |             | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 |                 | 7  |  |
|                           |             | 3 | 3 | 3 | 2 | 3 | 7 | 3 | 3 | 4 | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 1 | 3 | 8 | 3 | 3 | 2 | 3 | 3 | 3 |                 | 3  |  |
| <b>Control</b>            | ANIMAL ID   | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1               | 1  |  |
|                           |             | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 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 | 0 | 0               |    |  |
| Multiple Organ            |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +               | 50 |  |
| Histiocytic Sarcoma       |             |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |                 | 4  |  |
| Lymphoma Malignant        |             |   |   |   |   |   |   |   | X | X | X | X | X |   |   | X |   |   |   |   | X | X |   |   |   |   |   |                 | 10 |  |

\* .. 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                                 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | females<br>(cont...) |
|------------------------------------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------------|
|                                    |   | 6 7 7 7 7 7 7 7 4 6 7 6 7 5 6 7 7 7 7 7 7 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
|                                    |   | 0 3 2 3 3 3 3 3 7 1 3 4 3 7 9 3 3 3 3 3 3 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| ANIMAL ID                          | 0 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
|                                    | 0 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
|                                    | 3 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
|                                    |   | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Hepatocellular Carcinoma, Multiple |   | X   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Histiocytic Sarcoma                |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Ito Cell Tumor Benign              |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Lymphoma Malignant                 |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Mesentery                          |   | + +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Histiocytic Sarcoma                |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Pancreas                           |   | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Histiocytic Sarcoma                |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Lymphoma Malignant                 |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Salivary Glands                    |   | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Histiocytic Sarcoma                |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Lymphoma Malignant                 |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Stomach, Forestomach               |   | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Histiocytic Sarcoma                |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Lymphoma Malignant                 |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Stomach, Glandular                 |   | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Histiocytic Sarcoma                |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Lymphoma Malignant                 |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |
| Tooth                              |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                      |

CARDIOVASCULAR SYSTEM

|   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Blood Vessel                                  |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Aorta, Lymphoma Malignant, Metastatic, Spleen |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
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 FEMALE</b> | DAY ON TEST | 0<br>6<br>0<br>7 | 0<br>7<br>3<br>2 | 0<br>7<br>2<br>4 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>4<br>7<br>9 | 0<br>6<br>1<br>9 | 0<br>7<br>3<br>2 | 0<br>6<br>7<br>5 | 0<br>7<br>3<br>7 | 0<br>5<br>9<br>2 | 0<br>6<br>3<br>2 | 0<br>7<br>3<br>2 | 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>8<br>0 | 0<br>7<br>3<br>2 | <b>females<br/>(cont...)</b> |
|                           | ANIMAL ID   | 0<br>3<br>0<br>1 | 0<br>3<br>0<br>2 | 0<br>3<br>0<br>3 | 0<br>3<br>0<br>4 | 0<br>3<br>0<br>5 | 0<br>3<br>0<br>6 | 0<br>3<br>0<br>7 | 0<br>3<br>0<br>8 | 0<br>3<br>0<br>9 | 0<br>3<br>0<br>0 | 0<br>3<br>1<br>1 | 0<br>3<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>3<br>1 | 0<br>0<br>3<br>1 | 0<br>0<br>3<br>1 | 0<br>0<br>3<br>1 | 0<br>0<br>3<br>2 | 0<br>0<br>3<br>2 | 0<br>0<br>3<br>2 | 0<br>0<br>3<br>3 |                              |

Heart  
 Histiocytic Sarcoma  
 Lymphoma Malignant

+ +

**ENDOCRINE SYSTEM**

Adrenal Cortex  
 Histiocytic Sarcoma  
 Adrenal Medulla  
 Pheochromocytoma Benign  
 Pheochromocytoma Malignant

+  
 X  
 +  
 X  
 X

Islets, Pancreatic  
 Histiocytic Sarcoma, Metastatic, Spleen  
 Lymphoma Malignant, Metastatic, Spleen

+ +

Parathyroid Gland

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

Pituitary Gland  
 Pars Distalis, Adenoma

+ X + +

Thyroid Gland

+ +

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland

+ + + + + + + + + + + + I + + + + + + 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

|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                          |   |   |   |   |   |   |   |   |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|---|---|---|---|---|---|---|---|
| <b>B6C3F1 MICE FEMALE</b><br><b>10 mg/m3</b> | 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 | 0 | 0 | 0 | 0                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|  | ANIMAL ID   | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 6 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5                        | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 0 | 3 | 2 | 3 | 3 | 3 | 3 | 7 | 1 | 3 | 4 | 3 | 7 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 0                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|  |             | 7 | 2 | 4 | 2 | 1 | 1 | 2 | 3 | 9 | 9 | 2 | 0 | 2 | 5 | 7 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3                        | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2                        | 2 | 2 | 2 | 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 | 6 | 7 | 8 | 9                        | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>females (cont...)</b> |   |   |   |   |   |   |   |   |

Renal, Lymphoma Malignant

Lymph Node, Bronchial  
 Carcinoma, Metastatic, Mammary Gland  
 Histiocytic Sarcoma  
 Lymphoma Malignant

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|
| + | + | I | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |  |
|   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |

Lymph Node, Mandibular  
 Histiocytic Sarcoma  
 Lymphoma Malignant

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|
| I | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | I | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |

Lymph Node, Mediastinal  
 Histiocytic Sarcoma  
 Lymphoma Malignant  
 Schwannoma Malignant, Metastatic, Skin

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|
| + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | M | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |

Lymph Node, Mesenteric  
 Histiocytic Sarcoma  
 Lymphoma Malignant

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |

Spleen  
 Hemangiosarcoma  
 Histiocytic Sarcoma  
 Lymphoma Malignant

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |

Thymus  
 Histiocytic Sarcoma  
 Lymphoma Malignant

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|
| I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |  |  |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |

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

Mammary Gland  
Adenoma  
Carcinoma  
Lymphoma Malignant, Metastatic, Spleen

+ + + + + + + + + + + + X + + + + + + + + + + +

Skin  
Lymphoma Malignant  
Subcutaneous Tissue, Fibrous Histiocytoma  
Subcutaneous Tissue, Schwannoma Malignant

+ X

MUSCULOSKELETAL SYSTEM

Bone

+ +

Skeletal Muscle  
Histiocytic Sarcoma  
Lymphoma Malignant

+ + + + + + + + + + + + +

NERVOUS SYSTEM

Brain  
Carcinoma, Metastatic, Mammary Gland  
Lymphoma Malignant  
Meninges, Histiocytic Sarcoma

+ + + + + + + + + + + + X + + + + + + + + + + +

Peripheral Nerve

+ + + + + + + + + + + + +

Spinal Cord

+ + + + + + + + + + + + +

RESPIRATORY 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

| 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       | 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 |      |
| Hepatocellular Carcinoma, Multiple            |             |       |       |       | X     |       |       |       |       |       |       |       |       |       |       | 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    |
| <b>CARDIOVASCULAR SYSTEM</b>                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |      |
| 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  | 0733  | 0732  | 0731  | 0735  | 0732  | 0731  | 0731  | 0738  | 0732  | 0732  | 0733  | 0732  | 0733  | 0733  | 0733  | 0733  | 0733  | 0731  | 0733  | 0734  | 0737  |          | 0736  | 0735  | 0737  | 0738  | 0739  |
| ANIMAL ID                      | 00326       | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | 00351 | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 | 00360 | 00361    | 00362 | 00363 | 00364 | 00365 | 00366 |

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Heart               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma |   |   | X |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |
| Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | 1  |

**ENDOCRINE SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Adrenal Cortex                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |
| Histiocytic Sarcoma                     |   |   | X |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3 |
| Adrenal Medulla                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |
| Pheochromocytoma Benign                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |
| Pheochromocytoma Malignant              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |
| Islets, Pancreatic                      | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |   |
| Histiocytic Sarcoma, Metastatic, Spleen |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |
| Lymphoma Malignant, Metastatic, Spleen  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |    | 1 |
| Parathyroid Gland                       | M | M | + | + | + | M | + | + | + | M | + | + | + | + | M | M | + | M | + | M | + | M | M | + | + | + | + | + | + | + | 30 |   |
| Pituitary Gland                         | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |   |
| Pars Distalis, Adenoma                  | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   | 6  |   |
| Thyroid Gland                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

\* .. 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

| 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  | 0733  | 0732  | 0733  | 0733  | 0733  | 0731  | 0733  | 0734  | 0732  |          | 0737  | 0736  | 0735  |
| 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 | 00352 | 00353 |
| 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                              |             |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       | 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  
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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 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  | 0734  | 0737  | 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 |          |  |
| Larynx  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |  |
| Lung  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |  |
| Alveolar/Bronchiolar Adenoma                            | X           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 5     |          |  |
| Alveolar/Bronchiolar Carcinoma                          |             |       |       | X     |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       | X     |       |       |       | 3     |          |  |
| Carcinoma, Metastatic, Mammary Gland                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |  |
| Hepatocellular Carcinoma, Metastatic, Liver             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |          |  |
| Histiocytic Sarcoma                                     |             |       | X     |       |       |       |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       | 4     |          |  |
| Lymphoma Malignant                                      |             |       |       |       |       | X     |       |       | X     |       |       |       |       |       |       |       | X     | X     |       |       |       |       |       |       | 5     |          |  |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |  |
| Nose  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |  |
| Lymphoma Malignant                                      |             |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |  |
| Trachea   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |  |
| <b>SPECIAL SENSES SYSTEM</b>                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |  |
| Eye   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |  |
| Harderian Gland   | +           | +     | +     | +     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49    |          |  |
| Adenoma   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |  |
| Carcinoma   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |          |  |
| Lymphoma Malignant                                      |             |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       | 2     |          |  |
| <b>URINARY SYSTEM</b>                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |  |
| Kidney  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |  |
| Carcinoma, Metastatic, Mammary Gland                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |  |
| Histiocytic Sarcoma                                     |             |       | 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  
 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

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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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 Metal Working Fluids: Trim VX  
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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 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |  |       |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|--|-------|
|  | 0637        | 0733 | 0733 | 0661 | 0711 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0499 | 0673 | 0773 |           |                      |  |       |
| Hepatocellular Adenoma, Multiple           |             |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |           | 00501                |  |       |
| Hepatocellular Carcinoma                   |             |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | 00502                |  |       |
| Hepatocellular Carcinoma, Multiple         |             |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |           | 00503                |  |       |
| Histiocytic Sarcoma                        |             |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |           | 00504                |  |       |
| Lymphoma Malignant                         |             | X    |      | X    |      |      |      |      |      |      |      |      | X    |      |      |      |      | X    |      |      |      |      |      |           | 00505                |  |       |
| Mesentery<br>Histiocytic Sarcoma           |             |      |      | +    |      |      | +    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | +         | 00506                |  |       |
| Pancreas<br>Histiocytic Sarcoma            | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +         | +                    |  | 00507 |
| Lymphoma Malignant                         |             |      | X    | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |           |                      |  | 00508 |
| Salivary Glands<br>Lymphoma Malignant      | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | 00509                |  |       |
| Mast Cell Tumor Benign                     |             | X    |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | 00510                |  |       |
| Stomach, Forestomach<br>Lymphoma Malignant | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | 00511                |  |       |
| Stomach, Glandular<br>Histiocytic Sarcoma  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +         | +                    |  | 00512 |
| Lymphoma Malignant                         |             |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |           |                      |  | 00513 |

**CARDIOVASCULAR SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |       |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|
| Blood Vessel<br>Aorta, Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 00514 |       |
| Heart<br>Histiocytic Sarcoma              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | +     | 00515 |

\* .. 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 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |
|--------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|                    | 0637        | 0733 | 0731 | 0611 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 |           |                      |
| 30 mg/m3           | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005001    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005002    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005003    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005004    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005005    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005006    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005007    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005008    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005009    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005010    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005011    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005012    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005013    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005014    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005015    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005016    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005017    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005018    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005019    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005020    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005021    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005022    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005023    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005024    |                      |
|                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 005025    |                      |

Lymphoma Malignant  
 Lymphoma Malignant, Metastatic, Lymph Node, Mesenteric  
 Lymphoma Malignant, Metastatic, Spleen

X  
 X

Skin  
 Lymphoma Malignant  
 Schwannoma Malignant  
 Subcutaneous Tissue, Hemangiosarcoma

+  
 X X

**MUSCULOSKELETAL SYSTEM**

Bone  
 Hemangiosarcoma, Metastatic, Spleen

+  
 X

Skeletal Muscle

**NERVOUS SYSTEM**

Brain  
 Lymphoma Malignant

+  
 X X

Peripheral Nerve

Spinal Cord

**RESPIRATORY SYSTEM**

Larynx  
 Lymphoma Malignant

+  
 X

Lung

+ +

\* .. 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  
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 Lab: BNW

| B6C3F1 MICE FEMALE<br>30 mg/m3              | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |      |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|
|   | 0637        | 0773 | 0773 | 0661 | 0775 | 0772 | 0773 | 0773 | 0773 | 0773 | 0773 | 0772 | 0772 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0493 |           |                      | 0667 | 0773 |
| Alveolar/Bronchiolar Adenoma                |             |      |      |      |      |      | X    |      |      |      | X    |      |      |      |      |      |      |      |      |      |           |                      |      |      |
| Alveolar/Bronchiolar Carcinoma              | X           |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |           |                      | X    |      |
| Alveolar/Bronchiolar Carcinoma, Multiple    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |
| Hepatocellular Carcinoma, Metastatic, Liver | X           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |
| Histiocytic Sarcoma                         |             |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |
| Lymphoma Malignant                          |             |      | X    | X    |      |      |      |      |      |      |      | X    |      |      |      |      |      |      | X    |      |           |                      |      |      |
| Nose  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |      |
| Histiocytic Sarcoma                         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |
| Trachea                                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |      |
| Lymphoma Malignant                          |             |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |
| <b>SPECIAL SENSES SYSTEM</b>                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |
| Eye   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |      |
| Lymphoma Malignant                          |             |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |
| Harderian Gland                             | +           | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |      |
| Adenoma                                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      | X    | X    |           |                      |      |      |
| Carcinoma                                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |           |                      |      |      |
| Lymphoma Malignant                          |             |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |           |                      |      |      |
| <b>URINARY SYSTEM</b>                       |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |
| Kidney                                      | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A         | +                    | +    | +    |
| Histiocytic Sarcoma                         |             |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |
| Lymphoma Malignant                          |             | X    | X    | X    |      |      |      |      |      |      |      |      |      | X    |      |      |      |      | X    |      |           |                      |      |      |
| Urinary Bladder                             | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |      |
| Histiocytic Sarcoma                         |             |      |      |      |      |      |      | 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  
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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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 Lab: BNW

| B6C3F1 MICE FEMALE<br>30 mg/m3 | DAY ON TEST |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | * TOTALS |          |          |       |       |
|--------------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------|-------|
|                                | 01<br>98    | 07<br>33 | 07<br>33 | 07<br>32 | 06<br>55 | 07<br>32 | 06<br>49 | 07<br>33 | 07<br>36 | 07<br>72 | 07<br>72 | 07<br>70 | 07<br>33 | 07<br>33 | 07<br>80 | 04<br>03 | 07<br>31 | 07<br>73 | 07<br>33 | 07<br>73 |          | 07<br>33 | 07<br>73 |       |       |
| 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 |

**ALIMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant        |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Gallbladder               | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Histiocytic Sarcoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant        |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   | X |   |   |   |   |   |   |   |   | 3  |
| Intestine Large, Cecum    | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant        |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 3  |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Lymphoma Malignant        |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 2  |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Intestine Small, Duodenum | A | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 43 |
| Lymphoma Malignant        |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 4  |
| Intestine Small, Ileum    | A | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Histiocytic Sarcoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | 1  |
| Lymphoma Malignant        |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   |   | 5  |
| Intestine Small, Jejunum  | A | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Histiocytic Sarcoma       |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma    |   |   |   |   | X |   | X |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   |   |   | 7  |

\* .. 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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 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

| DAY ON TEST                        |  | 01 | 07 | 07 | 07 | 06 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 04 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07       | 07 | 07 | 07 | 07 |    |   |   |    |
|------------------------------------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|----|---|---|----|
| ANIMAL ID                          |  | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       | 00 | 00 | 00 | 00 | 00 |   |   |    |
|                                    |  | 58 | 33 | 32 | 32 | 52 | 32 | 49 | 33 | 16 | 32 | 32 | 07 | 31 | 33 | 33 | 80 | 09 | 31 | 51 | 31 | 33 | 33 | 31 | 31 | 31 | 31 | 31 | 31 | 31       | 31 | 31 | 31 | 31 |    |   |   |    |
|                                    |  | 67 | 88 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05       | 06 | 07 | 08 | 09 | 00 |   |   |    |
|                                    |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |    |    |    |    |    |   |   |    |
| Hepatocellular Adenoma, Multiple   |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | X  |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    | 3  |   |   |    |
| Hepatocellular Carcinoma           |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | X  |    | X  |    |    |    |    |    |    | X  |    |          |    |    |    |    | 5  |   |   |    |
| Hepatocellular Carcinoma, Multiple |  |    |    |    |    |    |    |    | X  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |    | 2 |   |    |
| Histiocytic Sarcoma                |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |    |   | 2 |    |
| Lymphoma Malignant                 |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |    |   | 9 |    |
| Mesentery                          |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |    |   | 5 |    |
| Histiocytic Sarcoma                |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |    |   |   | 1  |
| Pancreas                           |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |    |   |   | 49 |
| Histiocytic Sarcoma                |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |    |   |   | 2  |
| Lymphoma Malignant                 |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |    |   |   | 5  |
| Salivary Glands                    |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |    |   |   | 50 |
| Lymphoma Malignant                 |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |    |   |   | 2  |
| Mast Cell Tumor Benign             |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |    |   |   | 1  |
| Stomach, Forestomach               |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |    |   |   | 50 |
| Lymphoma Malignant                 |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |    |   |   | 2  |
| Stomach, Glandular                 |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |    |   |   | 49 |
| Histiocytic Sarcoma                |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |    |   |   | 1  |
| Lymphoma Malignant                 |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |    |   |   | 3  |

**CARDIOVASCULAR SYSTEM**

|                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |    |
|---------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|----|
| Blood Vessel              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |    |
| Aorta, Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1  |
| Heart                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 49 |
| Histiocytic Sarcoma       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1  |

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

| B6C3F1 MICE FEMALE                  | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|                                     | 018         | 073   | 073   | 073   | 065   | 073   | 064   | 073   | 073   | 073   | 073   | 073   | 073   | 073   | 073   | 048   | 077   | 077   | 077   | 077   | 077   |          |
| 30 mg/m3                            | ANIMAL ID   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|                                     | 00526       | 00527 | 00528 | 00529 | 00530 | 00531 | 00532 | 00533 | 00534 | 00535 | 00536 | 00537 | 00538 | 00539 | 00540 | 00541 | 00542 | 00543 | 00544 | 00545 | 00546 |          |
| Clitoral Gland                      | +           | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 45       |
| Ovary                               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | I     | +     | +     | +     | +     | 49       |
| Cystadenoma                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       | 2        |
| Histiocytic Sarcoma                 |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       | 2        |
| Lymphoma Malignant                  |             |       |       |       |       |       |       |       |       |       | X     |       |       | X     |       |       |       |       |       |       |       | 7        |
| Uterus                              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Histiocytic Sarcoma                 |             |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       | 1        |
| Lymphoma Malignant                  |             |       |       |       |       |       |       |       |       |       | X     |       |       | X     |       |       |       |       |       |       |       | 4        |
| Polyp Stromal                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 5        |
| Endometrium, Adenoma                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| <b>HEMATOPOIETIC SYSTEM</b>         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Bone Marrow                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Hemangiosarcoma, Metastatic, Spleen |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Histiocytic Sarcoma                 |             |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       | 1        |
| Lymphoma Malignant                  |             |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       | 2        |
| Lymph Node                          |             |       |       |       |       |       |       |       |       |       |       | +     | +     |       |       |       |       |       | +     |       |       | 11       |
| Histiocytic Sarcoma                 |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       | 1        |
| Axillary, Lymphoma Malignant        |             |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       | 1        |
| Deep Cervical, Lymphoma Malignant   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Iliac, Histiocytic Sarcoma          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Lumbar, Lymphoma Malignant          |             |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       | X     |       |       |       | 4        |
| Pancreatic, Lymphoma Malignant      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |
| Renal, Histiocytic Sarcoma          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Renal, Lymphoma Malignant           |             |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       | X     |       |       |       | 4        |

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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 |          |
| 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        |

\* .. 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



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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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 Lab: BNW

| B6C3F1 MICE FEMALE<br>30 mg/m3                         | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |  |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|--|
|  | 018         | 073   | 073   | 073   | 065   | 073   | 064   | 073   | 073   | 073   | 073   | 073   | 073   | 073   | 073   | 073   | 073   | 073   | 073   | 073   |          | 073   |       |       |       |  |
| 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 |  |
| Lymphoma Malignant                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1     |  |
| Lymphoma Malignant, Metastatic, Lymph Node, Mesenteric |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1     |  |
| Lymphoma Malignant, Metastatic, Spleen                 |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |          |       |       |       | 1     |  |
| Skin   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50    |  |
| Lymphoma Malignant                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 3     |  |
| Schwannoma Malignant                                   |             |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1     |  |
| Subcutaneous Tissue, Hemangiosarcoma                   |             |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |          |       |       |       | 1     |  |
| <b>MUSCULOSKELETAL SYSTEM</b>                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |  |
| Bone   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50    |  |
| Hemangiosarcoma, Metastatic, Spleen                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1     |  |
| Skeletal Muscle  |             |       |       |       |       |       |       |       |       |       |       | +     |       |       |       |       |       |       |       |       |          |       |       | +     | 2     |  |
| <b>NERVOUS SYSTEM</b>                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |  |
| Brain  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50    |  |
| Lymphoma Malignant                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 3     |  |
| Peripheral Nerve                                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1     |  |
| Spinal Cord  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1     |  |
| <b>RESPIRATORY SYSTEM</b>                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |  |
| Larynx   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50    |  |
| Lymphoma Malignant                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1     |  |
| Lung   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 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 FEMALE<br>30 mg/m3              | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |    |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|
|   | 01          | 02    | 03    | 04    | 05    | 06    | 07    | 08    | 09    | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    |          |    |
| ANIMAL ID                                   | 00526       | 00527 | 00528 | 00529 | 00530 | 00531 | 00532 | 00533 | 00534 | 00535 | 00536 | 00537 | 00538 | 00539 | 00540 | 00541 | 00542 | 00543 | 00544 | 00545 | 00546    |    |
| Alveolar/Bronchiolar Adenoma                |             |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 3  |
| Alveolar/Bronchiolar Carcinoma              |             |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 5  |
| Alveolar/Bronchiolar Carcinoma, Multiple    |             |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Hepatocellular Carcinoma, Metastatic, Liver |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |          | 2  |
| Histiocytic Sarcoma                         |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |          | 2  |
| Lymphoma Malignant                          |             |       | X     |       |       |       |       |       |       | X     | X     |       | X     |       |       |       |       | X     |       |       |          | 9  |
| Nose  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50 |
| Histiocytic Sarcoma                         |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |          | 1  |
| Trachea                                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50 |
| Lymphoma Malignant                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| <b>SPECIAL SENSES SYSTEM</b>                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    |
| Eye   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50 |
| Lymphoma Malignant                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Harderian Gland                             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 49 |
| Adenoma                                     |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       | X     |          | 5  |
| Carcinoma                                   |             |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |          | 2  |
| Lymphoma Malignant                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2  |
| <b>URINARY SYSTEM</b>                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    |
| Kidney                                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 49 |
| Histiocytic Sarcoma                         |             |       |       | X     |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |          | 3  |
| Lymphoma Malignant                          |             |       | X     |       |       |       |       |       |       | X     |       |       | X     |       |       |       |       |       |       |       | X        | 9  |
| Urinary Bladder                             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50 |
| Histiocytic Sarcoma                         |             |       |       |       |       |       |       |       |       |       |       |       | 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

|   |             |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                                    |                      |
|---|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------------------------------------|----------------------|
| <b>B6C3F1 MICE FEMALE</b><br><b>100 mg/m3</b> | DAY ON TEST | 07<br>15<br>53       | 05<br>16<br>38       | 06<br>64<br>55       | 07<br>73<br>17       | 05<br>53<br>73       | 07<br>73<br>33       | 00<br>06<br>11       | 07<br>73<br>33       | 07<br>73<br>33       | 06<br>67<br>14       | 07<br>73<br>42       | 06<br>67<br>22       | 07<br>73<br>23       | 07<br>73<br>33       | 06<br>67<br>22       | 07<br>73<br>33       | 01<br>17<br>33       | 07<br>73<br>33       | 07<br>73<br>33       | 07<br>73<br>22       | 07<br>73<br>11       | 07<br>73<br>32       | <b>females</b><br><b>(cont...)</b> |                      |
|   | ANIMAL ID   | 00<br>77<br>00<br>12 | 00<br>77<br>00<br>34 | 00<br>77<br>00<br>45 | 00<br>77<br>00<br>56 | 00<br>77<br>00<br>67 | 00<br>77<br>00<br>78 | 00<br>77<br>00<br>89 | 00<br>77<br>00<br>90 | 00<br>77<br>00<br>01 | 00<br>77<br>00<br>11 | 00<br>77<br>00<br>11 | 00<br>77<br>00<br>11 | 00<br>77<br>00<br>11 | 00<br>77<br>00<br>11 | 00<br>77<br>00<br>11 | 00<br>77<br>00<br>11 | 00<br>77<br>00<br>11 | 00<br>77<br>00<br>12 | 00<br>77<br>00<br>21 | 00<br>77<br>00<br>22 | 00<br>77<br>00<br>22 | 00<br>77<br>00<br>34 |                                    | 00<br>77<br>00<br>45 |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma                       |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                        |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Large, Cecum                    | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + |
| Intestine Small, Duodenum                 | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                    | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Small, Jejunum                  | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Islets, Pancreatic |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Adenoma                    | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   |   | X |   |   |   |   |   |
| Hepatocellular Adenoma, Multiple          |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Carcinoma                  |   |   |   |   | X |   |   |   |   | X |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Carcinoma, Multiple        | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |
| Histiocytic Sarcoma                       |   |   |   | X |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                        |   |   |   |   |   |   | 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 | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...)  |                       |                       |
|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                    | 0<br>7<br>1<br>5      | 0<br>5<br>1<br>3      | 0<br>6<br>6<br>8      | 0<br>6<br>4<br>5      | 0<br>7<br>3<br>1      | 0<br>5<br>5<br>7      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>6<br>3<br>1      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>5      | 0<br>6<br>3<br>4      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>6<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>1<br>6<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>2      |                       |                       | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      |
| 100 mg/m3          | 0<br>0<br>7<br>0<br>1 | 0<br>0<br>7<br>0<br>2 | 0<br>0<br>7<br>0<br>3 | 0<br>0<br>7<br>0<br>4 | 0<br>0<br>7<br>0<br>5 | 0<br>0<br>7<br>0<br>6 | 0<br>0<br>7<br>0<br>7 | 0<br>0<br>7<br>0<br>8 | 0<br>0<br>7<br>0<br>9 | 0<br>0<br>7<br>1<br>0 | 0<br>0<br>7<br>1<br>1 | 0<br>0<br>7<br>1<br>1 | 0<br>0<br>7<br>1<br>1 | 0<br>0<br>7<br>1<br>1 | 0<br>0<br>7<br>1<br>1 | 0<br>0<br>7<br>1<br>1 | 0<br>0<br>7<br>1<br>1 | 0<br>0<br>7<br>1<br>1 | 0<br>0<br>7<br>2<br>2 | 0<br>0<br>7<br>2<br>2 | 0<br>0<br>7<br>2<br>2 | 0<br>0<br>7<br>2<br>3 | 0<br>0<br>7<br>2<br>4 | 0<br>0<br>7<br>2<br>5 |

Mesentery  
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung  
Hemangioma  
Histiocytic Sarcoma  
Lymphoma Malignant  
Schwannoma Malignant, Metastatic, Heart

+ +  
X  
X

Pancreas  
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung  
Histiocytic Sarcoma  
Lymphoma Malignant  
Sarcoma, Metastatic, Skin

+  
X X  
X

Salivary Glands  
Histiocytic Sarcoma  
Lymphoma Malignant

+  
X X

Stomach, Forestomach  
Histiocytic Sarcoma

+  
X

Stomach, Glandular  
Histiocytic Sarcoma  
Lymphoma Malignant

+  
X X

**CARDIOVASCULAR SYSTEM**

Blood Vessel  
Aorta, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung

+ +

\* .. 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 | 0715 | 0667 | 0675 | 0677 | 0677 | 0677 | 0676 | 0677 | 0677 | 0677 | 0676 | 0677 | 0677 | 0677 | 0676 | 0677 | 0671 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | females<br>(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
|  | ANIMAL ID   | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 |                      |
| Aorta, Histiocytic Sarcoma, Metastatic, Spleen   |             |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Heart  |             | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Histiocytic Sarcoma                              |             |      |      |      | X    |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |                      |
| Endocardium, Schwannoma Malignant                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| <b>ENDOCRINE SYSTEM</b>                          |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Adrenal Cortex                                   |             | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Histiocytic Sarcoma                              |             |      |      |      | X    |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Subcapsular, Adenoma                             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |                      |
| Adrenal Medulla                                  |             | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Islets, Pancreatic Carcinoma                     |             | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Parathyroid Gland                                |             | +    | M    | M    | M    | M    | M    | M    | +    | M    | +    | +    | +    | M    | M    | +    | M    | +    | +    | M    | M    | M    | M    | +    | +    |                      |
| Pituitary Gland                                  |             | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Pars Distalis, Adenoma                           |             |      |      |      |      |      | X    |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Pars Distalis, Carcinoma                         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      | X    |      |      | X    |                      |
| Thyroid Gland                                    |             | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |

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 + .. 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                   | 0<br>5           | 0<br>6           | 0<br>6           | 0<br>7           | 0<br>5           | 0<br>7           | 0<br>7           | 0<br>6           | 0<br>7           | 0<br>7           | 0<br>6           | 0<br>7           | 0<br>7           | 0<br>7           | 0<br>6           | 0<br>7           | 0<br>1           | 0<br>7           | 0<br>7           | 0<br>7           | 0<br>7           | 0<br>7           | 0<br>7           | 0<br>7           | 0<br>7           | 0<br>7 |
|                           | <b>100 mg/m3</b> | 1<br>5                   | 1<br>3           | 6<br>8           | 4<br>5           | 3<br>1           | 5<br>7           | 3<br>3           | 3<br>3           | 6<br>1           | 3<br>3           | 2<br>5           | 3<br>3           | 9<br>4           | 3<br>2           | 3<br>3           | 3<br>2           | 1<br>2           | 3<br>2           | 6<br>3           | 3<br>3           | 3<br>3           | 3<br>3           | 3<br>2           | 3<br>1           | 3<br>2           | 3<br>1           | 3<br>2 |
|                           | ANIMAL ID        | 0<br>7<br>0<br>1         | 0<br>0<br>7<br>2 | 0<br>0<br>7<br>3 | 0<br>0<br>7<br>4 | 0<br>0<br>7<br>5 | 0<br>0<br>7<br>6 | 0<br>0<br>7<br>7 | 0<br>0<br>7<br>8 | 0<br>0<br>7<br>9 | 0<br>0<br>7<br>0 | 0<br>0<br>7<br>1 | 0<br>0<br>7<br>2 | 0<br>0<br>7<br>3 | 0<br>0<br>7<br>4 | 0<br>0<br>7<br>5 | 0<br>0<br>7<br>6 | 0<br>0<br>7<br>7 | 0<br>0<br>7<br>8 | 0<br>0<br>7<br>9 | 0<br>0<br>7<br>0 | 0<br>0<br>7<br>1 | 0<br>0<br>7<br>2 | 0<br>0<br>7<br>3 | 0<br>0<br>7<br>4 | 0<br>0<br>7<br>5 | 0<br>0<br>7<br>6 |        |
|                           |                  | <b>females (cont...)</b> |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |        |

Follicular Cell, Carcinoma, Multiple

X

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

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

Ovary

+ +

Alveolar/Bronchiolar Carcinoma, Metastatic, Lung

X

Cystadenoma

X

Granulosa Cell Tumor Benign

X

Histiocytic Sarcoma

X

Lymphoma Malignant

X

Periovarian Tissue, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung

Periovarian Tissue, Histiocytic Sarcoma

X

Periovarian Tissue, Sarcoma, Metastatic, Skin

Uterus

+ +

Carcinoma

Hemangioma

Histiocytic Sarcoma

X

Lymphoma Malignant

X

Polyp Stromal

X

HEMATOPOIETIC SYSTEM

\* .. 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

| B6C3F1 MICE FEMALE<br>100 mg/m3                            | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | ANIMAL ID | females<br>(cont...) |        |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|----------------------|--------|
|  | 071515      | 056675 | 066435 | 077337 | 087733 | 097733 | 106733 | 117733 | 126733 | 137733 | 146733 | 157733 | 166733 | 177733 | 186733 | 197733 | 206733 | 217733 | 226733 | 237733 | 246733 | 257733 | 266733 | 277733 | 286733 |           |                      | 297733 |
| Bone Marrow  | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +         | +                    |        |
| Histiocytic Sarcoma  |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                      | X      |
| Lymphoma Malignant   |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                      | X      |
| Lymph Node   |             | +      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                      | +      |
| Axillary, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                      | +      |
| Lumbar, Histiocytic Sarcoma                                |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                      | X      |
| Lumbar, Lymphoma Malignant                                 |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                      | X      |
| Pancreatic, Hemangiosarcoma                                |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                      | X      |
| Pancreatic, Lymphoma Malignant                             |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                      | X      |
| Renal, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung    |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                      | X      |
| Renal, Lymphoma Malignant                                  |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                      | X      |
| Lymph Node, Bronchial                                      | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | M      | +      | +      | +      | +      | +      | +      | +      | +      | +      | M      | +      | +      | +         | +                    |        |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung           |             | X      |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |           |                      | X      |
| Carcinoma, Metastatic, Harderian Gland                     |             |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |           |                      | X      |
| Histiocytic Sarcoma  |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                      | X      |
| Lymphoma Malignant   |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                      | X      |
| Lymph Node, Mandibular                                     | M           | +      | +      | +      | M      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | M      | +      | +         | +                    |        |
| Histiocytic Sarcoma  |             |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                      | X      |
| Lymphoma Malignant   |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                      | X      |
| Lymph Node, Mediastinal                                    | +           | +      | +      | +      | I      | I      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +         | +                    | +      |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung           |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                      | X      |
| Histiocytic Sarcoma  |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                      | X      |

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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  
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 Lab: BNW

| B6C3F1 MICE FEMALE<br>100 mg/m3                  | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |  |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|--|
|  | 0715        | 0667 | 0643 | 0753 | 0773 | 0773 | 0676 | 0776 | 0776 | 0776 | 0676 | 0776 | 0776 | 0776 | 0676 | 0776 | 0776 | 0776 | 0676 | 0776 | 0776 | 0776 | 0776 | 0776 |      |                      |  |
| ANIMAL ID  | 0070        | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 |                      |  |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X                    |  |
| Lymph Node, Mesenteric                           | I           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    |  |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |  |
| Histiocytic Sarcoma                              |             |      |      | X    |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |                      |  |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      | X    |      |      |                      |  |
| Sarcoma, Metastatic, Skin                        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |  |
| Spleen   | A           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    |  |
| Histiocytic Sarcoma                              |             |      |      | X    |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |                      |  |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      | X    | X    |      |      |      |      |      |      |      |      |      |      |      | X    | X    |      |                      |  |
| Thymus   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    |  |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X                    |  |
| Histiocytic Sarcoma                              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |  |
| Lymphoma Malignant                               |             |      |      | X    |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |                      |  |
| Sarcoma, Metastatic, Skin                        |             |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |                      |  |
| <b>INTEGUMENTARY SYSTEM</b>                      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |  |
| Mammary Gland                                    | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    |  |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X                    |  |
| Histiocytic Sarcoma, Metastatic, Spleen          |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |  |
| Lymphoma Malignant, Metastatic, Spleen           |             |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |                      |  |
| Skin   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    |  |
| Schwannoma Benign                                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X                    |  |
| Subcutaneous Tissue, Fibrous Histiocytoma        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |  |

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**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       |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                      |
|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|
|                    | 07<br>11<br>5     | 05<br>11<br>3     | 06<br>6<br>8      | 06<br>4<br>5      | 07<br>3<br>1      | 05<br>5<br>7      | 07<br>3<br>3      | 07<br>3<br>3      | 06<br>6<br>1      | 07<br>7<br>3      | 07<br>7<br>3      | 06<br>6<br>4      | 07<br>7<br>2      | 07<br>9<br>3      | 06<br>3<br>2      | 07<br>3<br>2      | 01<br>3<br>3      | 07<br>3<br>3      | 07<br>3<br>3      | 07<br>3<br>3      | 07<br>3<br>2      | 07<br>3<br>1      | 07<br>3<br>3      |                   |                      |
| 100 mg/m3          | ANIMAL ID         |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | females<br>(cont...) |
|                    | 00<br>7<br>0<br>1 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 | 00<br>0<br>7<br>0 |                      |

Subcutaneous Tissue, Sarcoma

**MUSCULOSKELETAL SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mandible, Fibrosarcoma                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skeletal Muscle  |   | + | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung Sarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|  |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**NERVOUS SYSTEM**

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant            |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |
| Meninges, Histiocytic Sarcoma |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Peripheral Nerve              |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Spinal Cord                   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**RESPIRATORY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lung                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolar/Bronchiolar Adenoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolar/Bronchiolar Carcinoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. 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      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | females<br>(cont...) |   |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|---|
|   | 0<br>7<br>1<br>5 | 0<br>5<br>1<br>3 | 0<br>6<br>6<br>8 | 0<br>6<br>4<br>5 | 0<br>7<br>3<br>7 | 0<br>5<br>5<br>7 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>6<br>6<br>1 | 0<br>7<br>3<br>3 | 0<br>7<br>2<br>5 | 0<br>7<br>3<br>3 | 0<br>6<br>9<br>4 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>6<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>1<br>6<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>2 |                  |                      |   |
|   | ANIMAL ID        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |   |
|   | 0<br>7<br>0<br>1 | 0<br>0<br>7<br>0 | 0<br>0<br>7<br>0 | 0<br>0<br>7<br>0 | 0<br>0<br>7<br>0 | 0<br>0<br>7<br>0 | 0<br>0<br>7<br>0 | 0<br>0<br>7<br>0 | 0<br>0<br>7<br>0 | 0<br>0<br>7<br>0 | 0<br>0<br>7<br>1 | 0<br>0<br>7<br>1 | 0<br>0<br>7<br>1 | 0<br>0<br>7<br>1 | 0<br>0<br>7<br>1 | 0<br>0<br>7<br>1 | 0<br>0<br>7<br>1 | 0<br>0<br>7<br>1 | 0<br>0<br>7<br>2 | 0<br>0<br>7<br>2 | 0<br>0<br>7<br>2 | 0<br>0<br>7<br>2 | 0<br>0<br>7<br>3 | 0<br>0<br>7<br>4 | 0<br>0<br>7<br>5 |                      |   |
| Alveolar/Bronchiolar Carcinoma, Multiple<br>Carcinoma, Metastatic, Harderian Gland<br>Hepatocellular Carcinoma, Metastatic, Liver<br>Histiocytic Sarcoma<br>Lymphoma Malignant<br>Sarcoma, Metastatic, Skin |                  | X                |                  |                  |                  |                  |                  |                  | X                |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |   |
| Nose<br>Carcinoma, Metastatic, Harderian Gland<br>Histiocytic Sarcoma   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                    |   |
| Trachea<br>Lymphoma Malignant   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                    |   |
| <b>SPECIAL SENSES SYSTEM</b>  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |   |
| Ear   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      | + |
| Eye   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                    |   |
| Harderian Gland<br>Adenoma<br>Carcinoma<br>Lymphoma Malignant   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                    |   |
|   | X                |                  |                  |                  |                  | X                |                  |                  | X                |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                      |   |
| <b>URINARY SYSTEM</b>   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |   |
| Kidney<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung<br>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  
 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  | 0331  | 0368  | 0773  | 0673  | 0773  | 0673  | 0773  | 0573  | 0773  | 0773  | 0673  | 0773  | 0673  | 0773  | 0673  |          |
| 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    |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mesentery  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 11 |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Hemangioma                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Histiocytic Sarcoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 1  |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Schwannoma Malignant, Metastatic, Heart          |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Histiocytic Sarcoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 3  |
| Lymphoma Malignant                               |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   |   | 5  |
| Sarcoma, Metastatic, Skin                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | 1  |
| Salivary Glands                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant                               |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Stomach, Forestomach                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Stomach, Glandular                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant                               |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |

**CARDIOVASCULAR SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Aorta, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   | 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

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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

| B6C3F1 MICE FEMALE<br>100 mg/m3                  | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|  | 0733        | 0673  | 0773  | 0773  | 0673  | 0736  | 0373  | 0667  | 0366  | 0773  | 0366  | 0773  | 0667  | 0373  | 0577  | 0773  | 0773  | 0667  | 0773  | 0667  | 0773  | 0667  | 0773  | 0667  |          |
| 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 |          |
| 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     |          |

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 Lab: BNW

| B6C3F1 MICE FEMALE<br>100 mg/m3 | DAY ON TEST      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |
|---------------------------------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|
|                                 | 0<br>7<br>3<br>3 | 0<br>6<br>7<br>3      | 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>9<br>8      | 0<br>7<br>3<br>2      | 0<br>3<br>1<br>9      | 0<br>6<br>8<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>6<br>4<br>5      | 0<br>7<br>3<br>1      | 0<br>5<br>7<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>1<br>5      | 0<br>6<br>7<br>2      | 0<br>7<br>3<br>5      | 0<br>6<br>3<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>6<br>8<br>4      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>2      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |
| ANIMAL ID                       |                  | 0<br>0<br>7<br>2<br>6 | 0<br>0<br>7<br>2<br>7 | 0<br>0<br>7<br>2<br>8 | 0<br>0<br>7<br>2<br>9 | 0<br>0<br>7<br>3<br>0 | 0<br>0<br>7<br>3<br>1 | 0<br>0<br>7<br>3<br>2 | 0<br>0<br>7<br>3<br>3 | 0<br>0<br>7<br>3<br>3 | 0<br>0<br>7<br>3<br>3 | 0<br>0<br>7<br>3<br>3 | 0<br>0<br>7<br>3<br>3 | 0<br>0<br>7<br>3<br>3 | 0<br>0<br>7<br>4<br>0 | 0<br>0<br>7<br>4<br>1 | 0<br>0<br>7<br>4<br>2 | 0<br>0<br>7<br>4<br>3 | 0<br>0<br>7<br>4<br>4 | 0<br>0<br>7<br>4<br>4 | 0<br>0<br>7<br>4<br>4 | 0<br>0<br>7<br>4<br>4 | 0<br>0<br>7<br>4<br>4 | 0<br>0<br>7<br>4<br>5 | 0<br>0<br>7<br>4<br>6 | 0<br>0<br>7<br>4<br>7 | 0<br>0<br>7<br>4<br>8 | 0<br>0<br>7<br>4<br>9 | 0<br>0<br>7<br>5<br>0 | 0<br>0<br>7<br>5<br>1 | 0<br>0<br>7<br>5<br>2 | 0<br>0<br>7<br>5<br>3 | 0<br>0<br>7<br>5<br>4 | 0<br>0<br>7<br>5<br>5 | 0<br>0<br>7<br>5<br>6 | 0<br>0<br>7<br>5<br>7 | 0<br>0<br>7<br>5<br>8 | 0<br>0<br>7<br>5<br>9 | 1 |

Follicular Cell, Carcinoma, Multiple

1

### GENERAL BODY SYSTEM

NONE

### GENITAL SYSTEM

Clitoral Gland

+ M I + 46

Ovary

+ 50

Alveolar/Bronchiolar Carcinoma, Metastatic, Lung

1

Cystadenoma

X

3

Granulosa Cell Tumor Benign

1

Histiocytic Sarcoma

X

2

Lymphoma Malignant

X

X

3

Periovarian Tissue, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung

X

1

Periovarian Tissue, Histiocytic Sarcoma

1

Periovarian Tissue, Sarcoma, Metastatic, Skin

X

1

Uterus

+ 50

Carcinoma

X

1

Hemangioma

X

1

Histiocytic Sarcoma

X

3

Lymphoma Malignant

X

X

2

Polyp Stromal

1

### HEMATOPOIETIC 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

| B6C3F1 MICE FEMALE<br>100 mg/m3                            | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|  | 0733        | 0673  | 0773  | 0773  | 0773  | 0673  | 0773  | 0363  | 0663  | 0773  | 0673  | 0773  | 0673  | 0773  | 0573  | 0773  | 0773  | 0673  | 0773  | 0673  | 0773  | 0673  | 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 |          |
| 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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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
|  | 0733        | 0673  | 0773  | 0773  | 0676  | 0773  | 0363  | 0667  | 0773  | 0363  | 0667  | 0773  | 0363  | 0667  | 0773  | 0363  | 0667  | 0773  | 0363  | 0667  | 0773  | 0363  | 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 |          |  |
| 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        |  |

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| B6C3F1 MICE FEMALE<br>100 mg/m3                          | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|  | 0733        | 0673  | 0773  | 0773  | 0676  | 0773  | 0361  | 0667  | 0361  | 0773  | 0676  | 0773  | 0572  | 0773  | 0771  | 0676  | 0773  | 0676  | 0773  | 0773  | 0676  | 0773  | 0773  | 0676  | 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 |          |
| 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        |

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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|
|  | 0733        | 0673  | 0773  | 0773  | 0676  | 0773  | 0366  | 0677  | 0318  | 0677  | 0776  | 0374  | 0673  | 0771  | 0676  | 0773  | 0673  | 0773  | 0677  | 0776  |          | 0777 |
| ANIMAL ID  | 00726       | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746    |      |
| Alveolar/Bronchiolar Carcinoma, Multiple<br>Carcinoma, Metastatic, Harderian Gland   |             | X     |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X        | 5    |
| Hepatocellular Carcinoma, Metastatic, Liver<br>Histiocytic Sarcoma                   |             | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     | X        | 3    |
| Lymphoma Malignant<br>Sarcoma, Metastatic, Skin                                      |             |       | X     |       |       |       |       |       |       |       | X     |       | X     | X     |       | X     |       |       |       | X     |          | 8    |
| Nose<br>Carcinoma, Metastatic, Harderian Gland<br>Histiocytic Sarcoma                | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50   |
| Trachea<br>Lymphoma Malignant  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +        | 49   |
| <b>SPECIAL SENSES SYSTEM</b>   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |
| Ear  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1    |
| Eye  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50   |
| Harderian Gland<br>Adenoma<br>Carcinoma<br>Lymphoma Malignant                        | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | +     | +     | +     | +     | +        | 49   |
|  |             |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |          | 4    |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |          | 5    |
|  |             |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1    |
| <b>URINARY SYSTEM</b>  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |
| Kidney<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung<br>Histiocytic Sarcoma | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50   |
|  |             |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2    |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |          | 3    |

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| B6C3F1 MICE FEMALE<br>100 mg/m3         | DAY ON TEST        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|---|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|   | 0733               | 0673 | 0773 | 0773 | 0773 | 0676 | 0773 | 0366 | 0367 | 0673 | 0677 | 0677 | 0677 | 0575 | 0773 | 0773 | 0676 | 0776 | 0677 | 0677 | 0676 | 0777 | 0777 |          |
| ANIMAL ID                               | 00726              | 0077 | 0078 | 0079 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | 0076 | 0077 | 0078 | 0079 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | 0076 | 0077 | 0078 |          |
|   | Lymphoma Malignant |      |      | X    |      |      |      |      |      |      |      |      |      |      | X    | X    | X    |      | X    |      |      |      |      |          |
| Sarcoma, Metastatic, Skin               |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      | 1        |
| Schwannoma Malignant, Metastatic, Heart |                    |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |
| Urinary Bladder                         | +                  | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |
| Histiocytic Sarcoma                     |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      | 3        |
| Lymphoma Malignant                      |                    |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      | 5        |
| <b>SYSTEMIC LESIONS</b>                 |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| Multiple Organ                          | +                  | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |
| Histiocytic Sarcoma                     |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      | 3        |
| Lymphoma Malignant                      |                    |      | X    |      |      |      |      |      |      |      |      |      | X    | X    | X    | X    | X    | X    |      |      |      |      |      | 12       |

\*\*\* END OF REPORT \*\*\*

\* .. 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