

**TDMS No.** 20523 - 02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Metal working fluids (Trim VX)

**CAS Number:** TRIMVX

**Date Report Requested:** 03/24/2011

**Time Report Requested:** 15:32:43

**First Dose M/F:** 07/14/08 / 07/14/08

**Lab:** BNW

F1\_M3

**C Number:** C20523  
**Lock Date:** 02/24/2009  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.3.1  
**PWG Approval Date:** NONE

<b>B6C3F1 MICE MALE</b>  <b>0 mg/m3</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	
	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	1	
		1	2	3	4	5	6	7	8	9	
											<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Gallbladder	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Salivary Glands	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	<b>10</b>
--------------	---	---	---	---	---	---	---	---	---	---	-----------

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

<b>B6C3F1 MICE MALE</b>  <b>0 mg/m3</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	
	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	1	
		1	2	3	4	5	6	7	8	9	
											<b>* TOTALS</b>

Heart	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Accessory Adrenal Cortical Nodule									X		<b>1</b>
Subcapsular, Hyperplasia				1				2			<b>2 1.5</b>
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Parathyroid Gland	+	M	+	M	M	+	+	M	M	+	<b>5</b>
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Preputial Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Prostate	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	<b>10</b>

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<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	
<b>0 mg/m3</b>		9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	
	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	1	
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											

Testes	+	+	+	+	+	+	+	+	+	+	10
Germinal Epithelium, Degeneration									3		1 3.0

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Bronchial	+	+	+	M	+	+	+	+	+	M	8
Lymph Node, Mandibular	+	+	+	+	+	+	M	+	M	+	8
Lymph Node, Mediastinal	M	M	M	+	+	M	M	+	M	M	3
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10

**INTEGUMENTARY SYSTEM**

Mammary Gland	M	M	M	M	M	M	M	M	M	M	0
Skin	+	+	+	+	+	+	+	+	+	+	10

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	10
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**NERVOUS SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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B6C3F1 MICE MALE	DAY ON TEST										ANIMAL ID		
	0	0	0	0	0	0	0	0	0	0			
0 mg/m3	9	9	9	9	9	9	9	9	9	9	0		
	5	5	5	5	5	5	5	5	5	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	1	0		
	1	2	3	4	5	6	7	8	9	0			<b>* TOTALS</b>
Brain	+	+	+	+	+	+	+	+	+	+			<b>10</b>
<b>RESPIRATORY SYSTEM</b>													
Larynx	+	+	+	+	+	+	+	+	+	+			<b>10</b>
Lung	+	+	+	+	+	+	+	+	+	+			<b>10</b>
Nose	+	+	+	+	+	+	+	+	+	+			<b>10</b>
Trachea	+	+	+	+	+	+	+	+	+	+			<b>10</b>
<b>SPECIAL SENSES SYSTEM</b>													
Eye	+	+	+	+	+	+	+	+	+	+			<b>10</b>
Harderian Gland	+	+	+	+	+	+	+	+	+	+			<b>10</b>
<b>URINARY SYSTEM</b>													
Kidney	+	+	+	+	+	+	+	+	+	+			<b>10</b>
Inflammation, Chronic				1					1				<b>2 1.0</b>
Nephropathy			1										<b>1 1.0</b>
Urinary Bladder	+	+	+	+	+	+	+	+	+	+			<b>10</b>

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TDMS No. 20523 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 03/24/2011

Time Report Requested: 15:32:43

First Dose M/F: 07/14/08 / 07/14/08

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	
		9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	
		5	5	5	5	5	5	5	5	5	
<b>25 mg/m3</b>	ANIMAL ID	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	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
										<b>* TOTALS</b>	

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

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<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	
		9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	
		5	5	5	5	5	5	5	5	5	
<b>25 mg/m3</b>	ANIMAL ID	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	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Chronic	1			1					1	1	<b>4 1.0</b>
Metaplasia, Squamous	2	2	2	2	2	4	2	2	2		<b>10 2.2</b>
Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Nose	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Suppurative	1	1	1	1		1	1			1	<b>7 1.0</b>
Olfactory Epithelium, Accumulation, Hyaline Droplet	1	1	1	2	2	1	1	1	1	2	<b>10 1.3</b>
Respiratory Epithelium, Accumulation, Hyaline Droplet	1	1	1	2	1	1	1	1	1	1	<b>10 1.1</b>
Trachea	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

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TDMS No. 20523 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 03/24/2011

Time Report Requested: 15:32:43

First Dose M/F: 07/14/08 / 07/14/08

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	
		9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	
<b>50 mg/m3</b>	ANIMAL ID	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	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

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<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	
		9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	
		0	0	0	0	0	0	0	0	0	
<b>50 mg/m3</b>	ANIMAL ID	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	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hyperplasia, Squamous	1					2					<b>2 1.5</b>
Metaplasia, Squamous	4	4	4	4	4	4	4	4	4	4	<b>10 4.0</b>
Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Fibrosis	1										<b>1 1.0</b>
Infiltration Cellular, Histiocyte	1	1									<b>2 1.0</b>
Inflammation, Chronic Active	1	1					1		1		<b>4 1.0</b>
Bronchiole, Hyperplasia	1	1	1	1	1	1	1	1	1		<b>9 1.0</b>
Nose	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Suppurative	1		1	1	1	1		1	1	1	<b>8 1.0</b>
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	1	2	1	1	2	2	2	2	1	<b>10 1.6</b>
Respiratory Epithelium, Accumulation, Hyaline Droplet	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>
Trachea	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

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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	
		9	9	9	9	9	9	9	9	9	
	ANIMAL ID	5	5	5	5	5	5	5	5	5	
		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	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
		<b>* TOTALS</b>									

NONE

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<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	
		9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	
<b>100 mg/m3</b>	ANIMAL ID	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	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

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<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	
		9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	
		0	0	0	0	0	0	0	0	0	
<b>100 mg/m3</b>	ANIMAL ID	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	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hyperplasia, Squamous	2	1	1	2		1	2	2	2	2	<b>9 1.7</b>
Inflammation, Chronic	1			1	1						<b>3 1.0</b>
Metaplasia, Squamous	4	4	4	4	4	4	4	4	4	4	<b>10 4.0</b>
Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Fibrosis	1	1		1	1	1	1		1	1	<b>8 1.0</b>
Infiltration Cellular, Histiocyte	1	1	1		2	1	1	1	1	2	<b>9 1.2</b>
Inflammation, Chronic Active	1	1	1	1	2	1	1	1	1	2	<b>10 1.2</b>
Bronchiole, Hyperplasia	1	1	1	1	2	1	1	1	1	1	<b>10 1.1</b>
Nose	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Suppurative	1		1	1	1	1	1	1		1	<b>8 1.0</b>
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	2	2	2	2	2	2	2	2	2	<b>10 2.0</b>
Respiratory Epithelium, Accumulation, Hyaline Droplet	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>
Trachea	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 20523 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 03/24/2011

Time Report Requested: 15:32:43

First Dose M/F: 07/14/08 / 07/14/08

Lab: BNW

<b>B6C3F1 MICE MALE</b>  <b>100 mg/m3</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	
	ANIMAL ID	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	
		0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	
		0	0	0	0	0	0	0	0	0	

\* TOTALS

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20523 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 03/24/2011

Time Report Requested: 15:32:43

First Dose M/F: 07/14/08 / 07/14/08

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	
		9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	
		5	5	5	5	5	5	5	5	5	
<b>200 mg/m3</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		8	8	8	8	8	8	8	8	8	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
										<b>* TOTALS</b>	

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

<b>B6C3F1 MICE MALE</b>  <b>200 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	
		9	9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	5	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		8	8	8	8	8	8	8	8	8	8	
		0	0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	0	
		<b>* TOTALS</b>										

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hyperplasia, Squamous	1	1		1	2	1	2	2		2	<b>8 1.5</b>
Inflammation, Chronic						1					<b>1 1.0</b>
Metaplasia, Squamous	4	4	4	4	4	4	4	4	4	4	<b>10 4.0</b>
Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Fibrosis	1	1	1	1	1	1	1	1	2	1	<b>10 1.1</b>
Infiltration Cellular, Histiocyte	2	1	1	1	1	2	1	1	1	1	<b>10 1.2</b>
Inflammation, Chronic Active	2	2	2	2	2	2	2	2	2	2	<b>10 2.0</b>
Bronchiole, Hyperplasia	2	2	2	2	2	2	2	2	3	2	<b>10 2.1</b>
Nose	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Suppurative	1		1	1	1	1	1	1	1		<b>8 1.0</b>
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	2	2	2	2	2	2	2	2	2	<b>10 2.0</b>
Respiratory Epithelium, Accumulation, Hyaline Droplet	1	1	1	1	2	1	2	2	2	1	<b>10 1.4</b>
Trachea	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20523 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 03/24/2011

Time Report Requested: 15:32:43

First Dose M/F: 07/14/08 / 07/14/08

Lab: BNW

<b>B6C3F1 MICE MALE</b>  <b>200 mg/m3</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		8	8	8	8	8	8	8	8	8	
		0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	

\* TOTALS

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



<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	
		9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	
		5	5	5	5	5	5	5	5	5	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		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	
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Gallbladder	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Rectum	+	+	+	+	M	+	+	+	+	+	<b>9</b>
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Salivary Glands	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

<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	
		9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	
		0	0	0	0	0	0	0	0	0	
<b>400 mg/m3</b>	ANIMAL ID	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	
		1	2	3	4	5	6	7	8	9	
										<b>* TOTALS</b>	

Heart	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Accessory Adrenal Cortical Nodule										X	<b>1</b>
Subcapsular, Hyperplasia				1							<b>1 1.0</b>
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Parathyroid Gland	+	+	+	+	M	+	+	M	+	M	<b>7</b>
Pituitary Gland	+	+	+	+	M	+	+	+	+	+	<b>9</b>
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Preputial Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Prostate	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	<b>10</b>

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+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

B6C3F1 MICE MALE 400 mg/m3	DAY ON TEST	0	0	0	0	0	0	0	0	0		
	ANIMAL ID	0	0	0	0	0	0	0	0	0		
		9	9	9	9	9	9	9	9	9		
		5	5	5	5	5	5	5	5	5		
		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	1		
		1	2	3	4	5	6	7	8	9	0	
		<b>* TOTALS</b>										
Testes		+	+	+	+	+	+	+	+	+	<b>10</b>	
<b>HEMATOPOIETIC SYSTEM</b>												
Bone Marrow		+	+	+	+	+	+	+	+	+	<b>10</b>	
Lymph Node, Bronchial		+	M	+	+	+	+	M	M	+	+	<b>7</b>
Lymph Node, Mandibular		+	M	+	+	M	+	+	+	+	+	<b>8</b>
Lymph Node, Mediastinal		+	+	M	+	M	M	+	M	+	+	<b>6</b>
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	<b>10</b>
Spleen		+	+	+	+	+	+	+	+	+	+	<b>10</b>
Thymus		+	+	+	+	+	+	+	+	+	+	<b>10</b>
<b>INTEGUMENTARY SYSTEM</b>												
Mammary Gland		M	M	M	M	M	M	M	M	M	M	<b>0</b>
Skin		+	+	+	+	+	+	+	+	+	+	<b>10</b>
<b>MUSCULOSKELETAL SYSTEM</b>												
Bone		+	+	+	+	+	+	+	+	+	+	<b>10</b>
<b>NERVOUS SYSTEM</b>												
Brain		+	+	+	+	+	+	+	+	+	+	<b>10</b>

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

B6C3F1 MICE MALE	DAY ON TEST										ANIMAL ID
	0	0	0	0	0	0	0	0	0	0	
400 mg/m3	0	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9	1
	5	5	5	5	5	5	5	5	5	5	0
	0	0	0	0	0	0	0	0	0	0	0
	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	1
	1	2	3	4	5	6	7	8	9	0	0
	<b>* TOTALS</b>										

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia, Squamous	2	2	3	2	1		1	3	2	1	9 1.9
Metaplasia, Squamous	4	4	4	4	4	4	4	4	4	4	10 4.0
Lung	+	+	+	+	+	+	+	+	+	+	10
Fibrosis	3	3	3	3	3	3	3	3	3	3	10 3.0
Infiltration Cellular, Histiocyte	2	1	1	1	1	2	2	1	2	2	10 1.5
Inflammation, Chronic Active	3	3	3	3	3	3	3	3	3	3	10 3.0
Bronchiole, Hyperplasia	3	3	3	3	3	3	3	3	2	2	10 2.8
Nose	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Suppurative	1	1	1	1	1	1	1	1	1	1	10 1.0
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	2	2	2	2	2	2	2	2	2	10 2.0
Respiratory Epithelium, Accumulation, Hyaline Droplet	1	1	1	2	2	1	1	1	1	2	10 1.3
Trachea	+	+	+	+	+	+	+	+	+	+	10

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic					1						1 1.0

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20523 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 03/24/2011

Time Report Requested: 15:32:43

First Dose M/F: 07/14/08 / 07/14/08

Lab: BNW

<b>B6C3F1 MICE MALE</b> <b>400 mg/m3</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		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	1	
		1	2	3	4	5	6	7	8	9	0
											<b>* TOTALS</b>
Urinary Bladder		+	+	+	+	+	+	+		+	<b>9</b>

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

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

<b>B6C3F1 MICE FEMALE</b>	<b>0 mg/m3</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	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
			9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
			6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
			0	0	0	0	0	0	0	0	0	0	0	0	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
			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								
		<b>* TOTALS</b>																		

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	9
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10

**CARDIOVASCULAR SYSTEM**

Blood Vessel	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	9
--------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

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

Heart	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	<b>10</b>		
Vacuolization Cytoplasmic	2	2		1		2		2	2		<b>6 1.8</b>	
Subcapsular, Accessory Adrenal Cortical Nodule	X										<b>1</b>	
Subcapsular, Hyperplasia		1		1		2		2	2		<b>5 1.6</b>	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	<b>10</b>		
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	<b>10</b>		
Parathyroid Gland	M	M	M	+	+	M	+	+	+	M	<b>5</b>	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>	

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland	+	M	+	+	M	+	+	+	+	+	<b>8</b>
Ovary	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Uterus	+	+	+	+	+	+	+	+	+	+	<b>10</b>

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

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

<b>B6C3F1 MICE FEMALE</b>	<b>0 mg/m3</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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
			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									

\* TOTALS

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+									
Lymph Node, Bronchial	M	M	+	+	M	+	+	+	+	I									
Lymph Node, Mandibular	M	+	+	+	+	+	+	+	+	M									
Lymph Node, Mediastinal	M	M	M	+	+	M	+	+	+	+									
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+									
Spleen	+	+	+	+	+	+	+	+	+	+									
Thymus	+	+	+	+	+	+	+	+	+	+									

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+									
Skin	+	+	+	+	+	+	+	+	+	+									

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+									
------	---	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+									
-------	---	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--

**RESPIRATORY SYSTEM**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade																			
+ .. Tissue examined microscopically																			
X .. Lesion present																			
I .. Insufficient tissue																			

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

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked



B6C3F1 MICE FEMALE	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
0 mg/m3	ANIMAL ID										
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	6	6	6	6	6	6	6	6	6	6	
	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	
	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	
<b>* TOTALS</b>											
Larynx	+	+	+	+	+	+	+	+	+	+	10
Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active										1	1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10
<b>SPECIAL SENSES SYSTEM</b>											
Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
<b>URINARY SYSTEM</b>											
Kidney	+	+	+	+	+	+	+	+	+	+	10
Cyst	X										1
Nephropathy										1	1 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10

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

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 20523 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 03/24/2011

Time Report Requested: 15:32:43

First Dose M/F: 07/14/08 / 07/14/08

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	
		9	9	9	9	9	9	9	9	9	
		6	6	6	6	6	6	6	6	6	
<b>25 mg/m3</b>	ANIMAL ID	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	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
										<b>* TOTALS</b>	

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

<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	
		9	9	9	9	9	9	9	9	9	
		6	6	6	6	6	6	6	6	6	
<b>25 mg/m3</b>	ANIMAL ID	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	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
										<b>* TOTALS</b>	

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	+		<b>10</b>
Inflammation, Chronic							1	1	1	1	<b>4 1.0</b>
Metaplasia, Squamous	4	2	2	2	2	2	2	2	2	2	<b>10 2.2</b>
Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Nose	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Suppurative							1				<b>1 1.0</b>
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	1	2	2	2	1	1	1	1	2	<b>10 1.5</b>
Respiratory Epithelium, Accumulation, Hyaline Droplet	2	1	1	1	2	1	1	1	1	2	<b>10 1.3</b>
Trachea	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20523 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 03/24/2011

Time Report Requested: 15:32:43

First Dose M/F: 07/14/08 / 07/14/08

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	
		9	9	9	9	9	9	9	9	9	
		6	6	6	6	6	6	6	6	6	
<b>50 mg/m3</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		5	5	5	5	5	5	5	5	5	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Adrenal Cortex

+

1

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

<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
		9	9	9	9	9	9	9	9	9	9
		6	6	6	6	6	6	6	6	6	6
		0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0
		5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
		<b>* TOTALS</b>									

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hyperplasia, Squamous				2							<b>1 2.0</b>
Inflammation, Chronic		1	1	1	1		1				<b>5 1.0</b>
Metaplasia, Squamous	2	2	2	4	2	4	4	2	2	2	<b>10 2.6</b>
Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Infiltration Cellular, Histiocyte							1				<b>1 1.0</b>
Inflammation, Chronic Active					1	1					<b>2 1.0</b>
Bronchiole, Hyperplasia	1		1		1	1					<b>4 1.0</b>
Nose	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Suppurative					1	1	1	1	1	1	<b>6 1.0</b>
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	2	2	2	2	2	2	2	2	2	<b>10 2.0</b>
Respiratory Epithelium, Accumulation, Hyaline Droplet	2	1	1	2	2	2	2	1	2	2	<b>10 1.7</b>
Trachea	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20523 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 03/24/2011

Time Report Requested: 15:32:43

First Dose M/F: 07/14/08 / 07/14/08

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	
		9	9	9	9	9	9	9	9	9	
	ANIMAL ID	6	6	6	6	6	6	6	6	6	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		5	5	5	5	5	5	5	5	5	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
		<b>* TOTALS</b>									

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20523 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 03/24/2011

Time Report Requested: 15:32:43

First Dose M/F: 07/14/08 / 07/14/08

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	
		9	9	9	9	9	9	9	9	9	
		6	6	6	6	6	6	6	6	6	
<b>100 mg/m3</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		7	7	7	7	7	7	7	7	7	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Adrenal Cortex

+

1

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

<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	
		9	9	9	9	9	9	9	9	9	
		6	6	6	6	6	6	6	6	6	
		6	6	6	6	6	6	6	6	6	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		7	7	7	7	7	7	7	7	7	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hyperplasia, Squamous	2	2	2	1	2	2				2	<b>7 1.9</b>
Inflammation, Chronic	1	1	1		1	1	1		1	1	<b>8 1.0</b>
Metaplasia, Squamous	4	2	4	4	4	4	4	2	2	4	<b>10 3.4</b>
Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Fibrosis	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>
Infiltration Cellular, Histiocyte		1		1	1		2		2		<b>5 1.4</b>
Inflammation, Chronic Active	1	1	1	1	2	2	2	1	2	1	<b>10 1.4</b>
Bronchiole, Hyperplasia	1	1	1	1	2	2	2	1	2	1	<b>10 1.4</b>
Nose	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Suppurative		1			1		1		1	1	<b>5 1.0</b>
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	2	2	2	2	2	2	2	2	2	<b>10 2.0</b>
Respiratory Epithelium, Accumulation, Hyaline Droplet	2	2	2	2	2	2	2	3	2	2	<b>10 2.1</b>
Trachea	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



TDMS No. 20523 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 03/24/2011

Time Report Requested: 15:32:43

First Dose M/F: 07/14/08 / 07/14/08

Lab: BNW

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

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20523 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 03/24/2011

Time Report Requested: 15:32:43

First Dose M/F: 07/14/08 / 07/14/08

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	
		9	9	9	9	9	9	9	9	9	
		6	6	6	6	6	6	6	6	6	
<b>200 mg/m3</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
										<b>* TOTALS</b>	

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

Lymph Node, Mediastinal

+

M

1

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

<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	
		9	9	9	9	9	9	9	9	9	
		6	6	6	6	6	6	6	6	6	
		0	0	0	0	0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
		<b>* TOTALS</b>									

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hyperplasia, Squamous	2	2	2	2	2				2		<b>7 2.0</b>
Inflammation, Chronic	1		1	1	1	1	1	1	1	1	<b>9 1.0</b>
Metaplasia, Squamous	4	4	4	4	4	4	4	4	4	4	<b>10 4.0</b>
Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Fibrosis	1	1	2	1	2	2	2	2	2	2	<b>10 1.7</b>
Infiltration Cellular, Histiocyte	1	1	1	2	1	1	1	1		1	<b>9 1.1</b>
Inflammation, Chronic Active	2	2	2	2	2	3	2	2	2	3	<b>10 2.2</b>
Bronchiole, Hyperplasia	2	2	2	2	2	2	2	2	2	2	<b>10 2.0</b>
Nose	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Suppurative	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	2	2	2	2	2	2	2	2	2	<b>10 2.0</b>
Respiratory Epithelium, Accumulation, Hyaline Droplet	2	2	2	2	3	2	2	2	2	2	<b>10 2.1</b>
Respiratory Epithelium, Hyperplasia					1						<b>1 1.0</b>
Trachea	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**SPECIAL SENSES SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20523 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 03/24/2011

Time Report Requested: 15:32:43

First Dose M/F: 07/14/08 / 07/14/08

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	
		9	9	9	9	9	9	9	9	9	
	ANIMAL ID	6	6	6	6	6	6	6	6	6	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
		<b>* TOTALS</b>									

**URINARY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

<b>B6C3F1 MICE FEMALE</b>	<b>400 mg/m3</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	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
			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	1	1
			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									
		<b>* TOTALS</b>																			

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Gallbladder	+	+	+	+	+	+	+	M	M	+										<b>8</b>
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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X .. Lesion present

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M .. Missing tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

<b>B6C3F1 MICE FEMALE</b> <b>400 mg/m3</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
		6	6	6	6	6	6	6	6	6	
	ANIMAL ID	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	
		0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	
											<b>* TOTALS</b>

Heart	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>	
Vacuolization Cytoplasmic			2			2			1	2		<b>4 1.8</b>
Subcapsular, Accessory Adrenal Cortical Nodule					X							<b>1</b>
Subcapsular, Hyperplasia			1			2	2		1	2		<b>5 1.6</b>
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	<b>10</b>	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	<b>10</b>	
Parathyroid Gland	M	+	+	M	M	M	M	M	+	M	<b>3</b>	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>	

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	M	+	+	<b>9</b>
Ovary	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Uterus	+	+	+	+	+	+	+	+	+	+	<b>10</b>

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X .. Lesion present  
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1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

<b>B6C3F1 MICE FEMALE</b>	<b>400 mg/m3</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	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
			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
			1	2	3	4	5	6	7	8	9	0								
		<b>* TOTALS</b>																		

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Bronchial	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	9
Lymph Node, Mandibular	+	+	+	M	M	M	+	+	+	+	+	+	+	+	+	+	+	+	7
Lymph Node, Mediastinal	+	+	M	+	+	+	M	M	+	M	+	+	+	+	+	+	+	+	6
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
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**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
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**RESPIRATORY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
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 I .. Insufficient tissue

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

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

B6C3F1 MICE FEMALE 400 mg/m3	DAY ON TEST										ANIMAL ID			
	0	0	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0			
	9	9	9	9	9	9	9	9	9	9	0			
	6	6	6	6	6	6	6	6	6	6	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			
	0	0	0	0	0	0	0	0	0	1	1			
	1	2	3	4	5	6	7	8	9	0				<b>* TOTALS</b>
Larynx	+	+	+	+	+	+	+	+	+	+				<b>10</b>
Hyperplasia, Squamous	2		2	2	2		2	2	2	2				<b>8 2.0</b>
Inflammation, Chronic			1	1			1		1	1				<b>5 1.0</b>
Metaplasia, Squamous	4	4	4	4	4	4	4	4	4	4				<b>10 4.0</b>
Lung	+	+	+	+	+	+	+	+	+	+				<b>10</b>
Fibrosis	3	3	3	3	2	3	3	3	3	3				<b>10 2.9</b>
Infiltration Cellular, Histiocyte	2	2	2	1	2	2	2	1	2	2				<b>10 1.8</b>
Inflammation, Chronic Active	3	3	3	3	3	3	3	3	3	3				<b>10 3.0</b>
Bronchiole, Hyperplasia	3	3	3	3	2	3	3	3	3	3				<b>10 2.9</b>
Nose	+	+	+	+	+	+	+	+	+	+				<b>10</b>
Inflammation, Suppurative		1	1		1	1		1	1	1				<b>7 1.0</b>
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	2	2	2	2	2	2	2	2	2				<b>10 2.0</b>
Respiratory Epithelium, Accumulation, Hyaline Droplet	2	2	2	2	2	2	3	2	2	2				<b>10 2.1</b>
Trachea	+	+	+	+	+	+	+	M	+	+				<b>9</b>
<b>SPECIAL SENSES SYSTEM</b>														
Eye	+	+	+	+	+	+	+	+	+	+				<b>10</b>
Harderian Gland	+	+	+	+	+	+	+	+	+	+				<b>10</b>
<b>URINARY SYSTEM</b>														
Kidney	+	+	+	+	+	+	+	+	+	+				<b>10</b>
Nephropathy						1								<b>1 1.0</b>

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



TDMS No. 20523 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 03/24/2011

Time Report Requested: 15:32:43

First Dose M/F: 07/14/08 / 07/14/08

Lab: BNW

<b>B6C3F1 MICE FEMALE</b> <b>400 mg/m3</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
		6	6	6	6	6	6	6	6	6	
	ANIMAL ID	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	
		0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	0
		<b>* TOTALS</b>									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	<b>10</b>

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

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

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