

**TDMS No.** 20523 - 02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**

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

B6C3F1 MICE MALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
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## Disposition Summary

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10

## ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Gallbladder	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(0)	(0)	(0)	(0)	(10)
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)

## CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)

## ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Accessory Adrenal Cortical Nodule	1 (10%)					1 (10%)
Subcapsular, Hyperplasia	2 (20%)					1 (10%)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion

Test Type: 90-DAY

Metal working fluids (Trim VX)

Time Report Requested: 15:32:43

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: TRIMVX

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

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(5)	(0)	(0)	(0)	(0)	(7)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(9)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)

## GENERAL BODY SYSTEM

None

## GENITAL SYSTEM

Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(0)	(0)	(0)	(0)	(10)
Germinal Epithelium, Degeneration	1 (10%)					

## HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Bronchial	(8)	(0)	(0)	(0)	(0)	(7)
Lymph Node, Mandibular	(8)	(0)	(0)	(0)	(0)	(8)
Lymph Node, Mediastinal	(3)	(0)	(0)	(0)	(0)	(6)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)

## INTEGUMENTARY SYSTEM

Skin	(10)	(0)	(0)	(0)	(0)	(10)
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a - Number of animals examined microscopically at site and number of animals with lesion

B6C3F1 MICE MALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
<b>RESPIRATORY SYSTEM</b>						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Hyperplasia, Squamous			2 (20%)	9 (90%)	8 (80%)	9 (90%)
Inflammation, Chronic		4 (40%)		3 (30%)	1 (10%)	
Metaplasia, Squamous		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Fibrosis			1 (10%)	8 (80%)	10 (100%)	10 (100%)
Infiltration Cellular, Histiocyte			2 (20%)	9 (90%)	10 (100%)	10 (100%)
Inflammation, Chronic Active			4 (40%)	10 (100%)	10 (100%)	10 (100%)
Bronchiole, Hyperplasia			9 (90%)	10 (100%)	10 (100%)	10 (100%)
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Suppurative		7 (70%)	8 (80%)	8 (80%)	8 (80%)	10 (100%)
Olfactory Epithelium, Accumulation, Hyaline Droplet		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Respiratory Epithelium, Accumulation, Hyaline Droplet		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Trachea	(10)	(10)	(10)	(10)	(10)	(10)
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(10)	(0)	(0)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
<b>URINARY SYSTEM</b>						

a - Number of animals examined microscopically at site and number of animals with lesion

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Species/Strain: MICE/B6C3F1

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Metal working fluids (Trim VX)

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Lab: BNW

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B6C3F1 MICE MALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic	2 (20%)					1 (10%)
Nephropathy	1 (10%)					
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(9)

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

a - Number of animals examined microscopically at site and number of animals with lesion

B6C3F1 MICE FEMALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
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## Disposition Summary

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10

## ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Gallbladder	(9)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(0)	(0)	(0)	(0)	(10)
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)

## CARDIOVASCULAR SYSTEM

Blood Vessel	(9)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)

## ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(1)	(1)	(0)	(10)
Vacuolization Cytoplasmic	6 (60%)					4 (40%)
Subcapsular, Accessory Adrenal Cortical Nodule	1 (10%)					1 (10%)

a - Number of animals examined microscopically at site and number of animals with lesion

B6C3F1 MICE FEMALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Subcapsular, Hyperplasia	5 (50%)					5 (50%)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(5)	(0)	(0)	(0)	(0)	(3)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)

## GENERAL BODY SYSTEM

None

## GENITAL SYSTEM

Clitoral Gland	(8)	(0)	(0)	(0)	(0)	(9)
Ovary	(10)	(0)	(0)	(0)	(0)	(10)
Uterus	(10)	(0)	(0)	(0)	(0)	(10)

## HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Bronchial	(6)	(0)	(0)	(0)	(0)	(9)
Lymph Node, Mandibular	(8)	(0)	(0)	(0)	(0)	(7)
Lymph Node, Mediastinal	(6)	(0)	(0)	(0)	(1)	(6)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)

## INTEGUMENTARY SYSTEM

Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion

B6C3F1 MICE FEMALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
<b>RESPIRATORY SYSTEM</b>						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Hyperplasia, Squamous			1 (10%)	7 (70%)	7 (70%)	8 (80%)
Inflammation, Chronic		4 (40%)	5 (50%)	8 (80%)	9 (90%)	5 (50%)
Metaplasia, Squamous		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Fibrosis				10 (100%)	10 (100%)	10 (100%)
Infiltration Cellular, Histiocyte			1 (10%)	5 (50%)	9 (90%)	10 (100%)
Inflammation, Chronic Active	1 (10%)		2 (20%)	10 (100%)	10 (100%)	10 (100%)
Bronchiole, Hyperplasia			4 (40%)	10 (100%)	10 (100%)	10 (100%)
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Suppurative		1 (10%)	6 (60%)	5 (50%)	10 (100%)	7 (70%)
Olfactory Epithelium, Accumulation, Hyaline Droplet		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Respiratory Epithelium, Accumulation, Hyaline Droplet		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Respiratory Epithelium, Hyperplasia					1 (10%)	
Trachea	(10)	(10)	(10)	(10)	(10)	(9)
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(10)	(0)	(0)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion



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B6C3F1 MICE FEMALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
<hr/>						
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Cyst	1 (10%)					
Nephropathy	1 (10%)					1 (10%)
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

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

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