

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Experiment Number: 20523 - 04

Test Type: CHRONIC

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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---------------------------|----------------|------------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Minimal |
| * Intestine Small, Ileum | | Lymphoma Malignant | |
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| * Lymph Node, Bronchial | | Lymphoma Malignant | |
| * Lymph Node, Mandibular | | Lymphoma Malignant | |
| * Lymph Node, Mediastinal | | Lymphoma Malignant | |
| * Lymph Node, Mesenteric | | Lymphoma Malignant | |
| * Nose | Respirat Epith | Hyperplasia | Minimal |
| * Prostate | | Lymphoma Malignant | |
| * Spleen | | Lymphoma Malignant | |

* PROTOCOL REQUIRED TISSUE

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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Adenoma	Multiple
* Epididymis	Exfoliated Germ Cell	
* Heart	Cardiomyopathy	Minimal
* Intestine Small, Ileum	Hyperplasia	Lymphoid, Mild
* Kidney	Nephropathy	Moderate
* Larynx	Inflammation	Chronic Active, Minimal
* Liver	Basophilic Focus	
	Clear Cell Focus	
	Hepatocellular Adenoma	Multiple
	Hepatocellular Carcinoma	
	[Clear Cell Focus TGLs = 3-12]	
	[Hepatocellular Adenoma TGLs = 2-6]	
	[Hepatocellular Carcinoma TGLs = 4-13]	
* Lung	Alveolar/Bronchiolar Carcinoma	
	Infiltration Cellular	Histiocyte, Minimal
	[Alveolar/Bronchiolar Carcinoma TGLs = 1-4]	
* Lymph Node, Bronchial	Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mandibular	Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60572

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Respirat Epith	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Lymphoid, Mild
* Trachea	Cartilage	Metaplasia	Osseous, Minimal

Experiment Number: 20523 - 04
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 Metal Working Fluids: Trim VX
CAS Number: TRIMVX

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

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Epididymis		Exfoliated Germ Cell	
* Eye		Inflammation	Chronic Active, Moderate
	[Inflammation TGLs = 1-11]		
* Harderian Gland		Carcinoma	
	[Carcinoma TGLs = 2-13]		
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Tension Lipidosis	Mild
	[Hepatocellular Adenoma TGLs = 5,6-6+12]		
* Lung		Hyperplasia	Marked
	Alv/Bron Epith	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic, Minimal
		Pigmentation	Marked
	[Infiltration Cellular TGLs = 3-4]		
	[Pigmentation TGLs = 3-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60573

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular

* Nose

* Skin

Nasolacrim Dct

Respirat Epith

Respirat Epith

Infiltration Cellular

Abscess

Accumulation, Hyaline Droplet

Hyperplasia

Hyperplasia

Inflammation

Ulcer

Histiocyte, Mild

Marked

Minimal

Minimal

Mild

Chronic Active, Moderate

Mild

[Hyperplasia TGLs = 4-13]

[Inflammation TGLs = 4-13]

[Ulcer TGLs = 4-13]

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 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Harderian Gland		Hyperplasia	Mild
* Intestine Large, Cecum		Hyperplasia	Moderate
* Intestine Small, Duodenum		Adenoma	
	[Adenoma TGLs = 2-6]		
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	[Hepatocellular Carcinoma TGLs = 1-12]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Respirat Epith	Hyperplasia	Minimal
	Nasolacrim Dct	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes		Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 414

DOSE: Control

DISP: Natural Death

HISTO: 60575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
* Parathyroid Gland			

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Jejunum
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OBSERVATIONS

* Harderian Gland		Adenoma	
[Adenoma TGLs = 1-11]			
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Congestion	Mild
		Hepatocellular Carcinoma	
[Congestion TGLs = 3-5]			
[Hepatocellular Carcinoma TGLs = 2-12]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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 Metal Working Fluids: Trim VX
 CAS Number: TRIMVX

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

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
Mesentery	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Inflammation	Chronic Active, Mild
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 1-6]		
* Lung	Alv/Bron Epith	Hyperplasia	Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Respirat Epith	Hyperplasia	Mild
* Stomach, Glandular		Mineralization	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 646

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Intestine Large, Cecum		Hemorrhage	Moderate
		Inflammation	Mild
		Necrosis	Minimal
	[Hemorrhage TGLs = 2-7]		
	[Inflammation TGLs = 2-7]		
	[Necrosis TGLs = 2-7]		
* Larynx		Inflammation	Chronic Active, Minimal
* Liver	Centrilobular, Hepatocyte	Necrosis	Mild
	[Necrosis TGLs = 1-6]		
* Nose	Respirat Epith	Hyperplasia	Mild
	Nasolacrim Dct	Inflammation	Chronic Active, Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Intestine Large, Cecum Hemorrhage
 CONTRIBUTORY CAUSE OF DEATH - Intestine Large, Cecum Inflammation

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Moderate
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 1,2,4-5+6+12]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
	[Alveolar/Bronchiolar Carcinoma TGLs = 5,6-4]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Spleen		Hyperplasia	Lymphoid, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04
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 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60579

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	
[Hepatocellular Adenoma	TGLs = 2-5]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
[Alveolar/Bronchiolar Carcinoma	TGLs = 1-4]		
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Necrosis	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

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CAS Number: TRIMVX

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

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60579

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Degeneration

Minimal

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 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60580

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	
Note: TGL 1 = NCL (No Corresponding Lesion)			
[Hepatocellular Adenoma TGLs = 2-6]			
* Lung		Inflammation	Chronic, Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Minimal

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Intestine Large, Rectum	* Lymph Node, Mediastinal
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Mixed Cell Focus	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLs = 1-5]			
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Preputial Gland	* Salivary Glands
* Thyroid Gland	* Trachea		

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Lymphoma Malignant	
* Epididymis		Lymphoma Malignant	
* Gallbladder		Lymphoma Malignant	
* Harderian Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Basophilic Focus	
* Lung		Lymphoma Malignant	
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Lymphoma Malignant	
* Seminal Vesicle		Lymphoma Malignant	
* Skin		Fibrosarcoma	
		Inflammation	Chronic Active, Marked
		Ulcer	Marked

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60582

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosarcoma TGLs = 1-12]

[Inflammation TGLs = 1-12]

[Ulcer TGLs = 1-12]

* Spleen

Lymphoma Malignant

[Lymphoma Malignant TGLs = 2-5]

* Stomach, Forestomach

Lymphoma Malignant

* Stomach, Glandular

Lymphoma Malignant

* Testes

Lymphoma Malignant

* Thymus

Lymphoma Malignant

* Urinary Bladder

Lymphoma Malignant

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Basophilic Focus	
		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLs = 2-12]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Marked
	[Inflammation TGLs = 1-8]		
* Skin		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60583

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLs = 1-8]

Tooth

Dysplasia

Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 549

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Liver		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[Alveolar/Bronchiolar Carcinoma TGLs = 3-5]	Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLs = 4-6]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	Multiple
	[Alveolar/Bronchiolar Carcinoma TGLs = 1-4]		
* Lymph Node, Bronchial		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Lymph Node, Mediastinal		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[Alveolar/Bronchiolar Carcinoma TGLs = 2-3]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Lymph Node, Mediastinal Alveolar/Bronchiolar Carcinoma Lung

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Harderian Gland		Adenoma	
[Adenoma TGLs = 1-11]			
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
[Eosinophilic Focus TGLs = 4-13]			
[Hepatocellular Adenoma TGLs = 2-6]			
[Hepatocellular Carcinoma TGLs = 5-15]			
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLs = 6-14]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Hypertrophy	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60585

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hyperplasia

Lymphoid, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 619

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Bone Marrow		Lymphoma Malignant	
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 6-13]		
* Kidney		Nephropathy	Minimal
* Larynx	Squam Epithel	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 3-5]		
* Lung		Alveolar/Bronchiolar Adenoma	
Lymph Node	Renal	Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 4-6]		
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 5-12]		
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Skin		Inflammation	Chronic Active, Marked
		Necrosis	Marked

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 619

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60586

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLs = 1-12]

* Spleen

Hematopoietic Cell Proliferation

Mild

Lymphoma Malignant

[Lymphoma Malignant TGLs = 2-5]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

- Lymph Node, Mesenteric Lymphoma Malignant

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 618

DOSE: Control

DISP: Natural Death

HISTO: 60587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Mammary Gland	* Pancreas	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mesenteric	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Eosinophilic Focus	
		Hemorrhage	Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	[Eosinophilic Focus TGLs = 3-5]		
	[Hemorrhage TGLs = 6-6]		
	[Hepatocellular Adenoma TGLs = 1,5-12+14]		
	[Hepatocellular Carcinoma TGLs = 2,4-5+13]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Respirat Epith	Hyperplasia	Minimal
	Lateral Wall	Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Intermed	Cyst	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 618

DOSE: Control

DISP: Natural Death

HISTO: 60587

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Minimal

Tooth

Dysplasia

Mild

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	[Clear Cell Focus TGLs = 1-12]		
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Testes		Degeneration	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Bronchial | * Lymph Node, Mediastinal |
| * Pancreas | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | | |
|--------------------------|-----------------|---------------------|
| * Lymph Node, Mandibular | * Mammary Gland | * Parathyroid Gland |
|--------------------------|-----------------|---------------------|

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Minimal |
| * Epididymis | | Exfoliated Germ Cell | |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Cecum | | Inflammation | Mild |
| * Intestine Small, Ileum | | Hyperplasia | Lymphoid, Minimal |
| * Kidney | | Infarct | Chronic, Minimal |
| | | Nephropathy | Mild |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| * Liver | | Hepatocellular Carcinoma | |
| | [Hepatocellular Carcinoma TGLs = 1-5+12] | | |
| * Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Mild |
| * Nose | Respirat Epith | Hyperplasia | Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Bronchial
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Respirat Epith	Hyperplasia	Mild
* Thymus		Hyperplasia	Lymphoid, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Moderate
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Mixed Cell Focus	
	[Hepatocellular Adenoma TGLs = 1,2,5-6+13+14]		
	[Hepatocellular Carcinoma TGLs = 3-12]		
	[Mixed Cell Focus TGLs = 4-15]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Ectasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60592

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Epididymis		Exfoliated Germ Cell	
		Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 1-5]		
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 2-6]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Hypertrophy	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Trachea

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 3,4,5-5+13+14]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[Alveolar/Bronchiolar Carcinoma TGLs = 7-4]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Moderate
* Skin		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Clear Cell Focus	
[Clear Cell Focus TGLs = 1-6]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Infiltration Cellular	Lymphoid, Minimal
* Seminal Vesicle		Infiltration Cellular	Lymphoid, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Forestomach		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLs = 2-12]			

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Intestine Small, Duodenum		Adenoma	
[Adenoma TGLs = 2-13]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
[Eosinophilic Focus TGLs = 4-6]			
[Hepatocellular Adenoma TGLs = 3-5]			
[Hepatocellular Carcinoma TGLs = 1-12]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Respirat Epith	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Brain | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Bronchial |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Testes | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

- | | | | |
|---|----------------|--------------------------------|--------------------------|
| * Adrenal Cortex | | Hypertrophy | Minimal |
| * Bone | | Mast Cell Tumor Malignant | Metastatic (Bone Marrow) |
| [Hyperostosis TGLs = 4-12] | | Hyperostosis | Minimal |
| * Bone Marrow | | Mast Cell Tumor Malignant | |
| * Epididymis | | Exfoliated Germ Cell | |
| * Kidney | | Mast Cell Tumor Malignant | Metastatic (Bone Marrow) |
| | | Nephropathy | Mild |
| * Larynx | | Inflammation | Chronic Active, Mild |
| * Liver | | Basophilic Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Mild |
| [Basophilic Focus TGLs = 1-6] | | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| [Alveolar/Bronchiolar Carcinoma TGLs = 2-4] | | | |
| * Lymph Node, Mediastinal | | Mast Cell Tumor Malignant | Metastatic (Bone Marrow) |
| * Nose | Respirat Epith | Hyperplasia | Mild |
| * Stomach, Forestomach | | Mast Cell Tumor Malignant | Metastatic (Bone Marrow) |
| [Mast Cell Tumor Malignant TGLs = 3-9] | | | |
| * Stomach, Glandular | | Cyst | Squamous, Minimal |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60596

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Mast Cell Tumor Malignant

Metastatic (Bone Marrow)

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Medulla		Angiectasis	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
	[Clear Cell Focus TGLs = 6-5+14]		
	[Hepatocellular Adenoma TGLs = 1,2,3,4,5-6+12+13+15+16]		
* Lung	Alveolar Epith	Hyperplasia	Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Respirat Epith	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Minimal
* Testes		Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 596

DOSE: Control

DISP: Natural Death

HISTO: 60598

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Islets, Pancreatic	* Lung	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Testes
* Thymus	* Thyroid Gland	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
* Preputial Gland			

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Larynx	* Nose	* Stomach, Glandular
* Trachea			

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	Multiple
	[Hepatocellular Carcinoma TGLs = 1,2-6+12]		
* Skin		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 484

DOSE: Control

DISP: Natural Death

HISTO: 60599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|------------------------|----------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Islets, Pancreatic | * Lung | * Lymph Node, Bronchial |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thyroid Gland | * Urinary Bladder | | |

MISSING

- | | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

AUTO PRECLUDES DIAG.

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Larynx | * Lymph Node, Mediastinal | * Spleen |
| * Trachea | | | |

OBSERVATIONS

- | | | | |
|----------|--|--------------------------|----------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Hepatocellular Carcinoma | Multiple |
| | Hepatocyte | Necrosis | Marked |
| | [Hepatocellular Carcinoma TGLs = 1,2-5+12] | | |
| * Nose | Respirat Epith | Hyperplasia | Minimal |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60600

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Pancreas | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- | | |
|-----------------|---------------------|
| * Mammary Gland | * Parathyroid Gland |
|-----------------|---------------------|

OBSERVATIONS

- | | | | |
|------------------|---------------------------------------|-------------------------------|----------------------|
| * Adrenal Cortex | | Adenoma | |
| | | Hypertrophy | Minimal |
| * Bone | | Fibro-Osseous Lesion | |
| * Epididymis | | Exfoliated Germ Cell | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Larynx | | Inflammation | Chronic Active, Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatocellular Adenoma | |
| | [Hepatocellular Adenoma TGLs = 1-6] | | |
| * Nose | Respirat Epith | Accumulation, Hyaline Droplet | Minimal |
| Tooth | | Dysplasia | Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mediastinal	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Mild
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Clear Cell Focus	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Ectasia	Mild
		Inflammation	Chronic Active, Marked
Tooth		Dysplasia	Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60602

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Harderian Gland		Adenoma	
[Adenoma TGLs = 1-11]			
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Clear Cell Focus	
Note: TGLs 2, 4 = NCL (No Corresponding Lesion)			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Skin		Inflammation	Chronic Active, Minimal
* Testes		Degeneration	Minimal

Animal Note: TGL 2,4 = NCL (No Corresponding Lesion)

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60603

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mediastinal	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Hyperplasia	Lymphoid, Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
* Kidney		Hyperplasia	Lymphoid, Mild
		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 4,5-5+6]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Congestion	Mild
		Hyperplasia	Lymphoid, Minimal
	[Congestion TGLs = 6-7]		
* Nose		Exudate	Minimal
	Lateral Wall	Inflammation	Chronic Active, Moderate
	Nasolacrim Dct	Inflammation	Chronic Active, Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Necrosis	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60603

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
		Ulcer	Mild
	[Ulcer TGLs = 1-12]		
* Spleen		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLs = 3-5]		
* Testes		Degeneration	Minimal
Tooth		Malformation	

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow		Lymphoma Malignant	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
[Hepatocellular Adenoma	TGLs = 1-6]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate	Arteriole	Inflammation	Chronic Active, Mild
* Skin		Inflammation	Chronic Active, Minimal
* Spleen		Lymphoma Malignant	
* Thymus	Epithel Cell	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 675

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney	[Nephropathy TGLs = 3-6]	Nephropathy	Marked
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Basophilic Focus	
	[Basophilic Focus TGLs = 4-6]	Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 5-12]	Hepatocellular Carcinoma	Multiple
	[Hepatocellular Carcinoma TGLs = 6,7-13+14]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLs = 8-4]	Alveolar/Bronchiolar Carcinoma	
	[Alveolar/Bronchiolar Carcinoma TGLs = 2-15]		
* Lymph Node, Mandibular		Hematopoietic Cell Proliferation	Minimal
* Nose		Exudate	Minimal
* Pituitary Gland	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 675

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60605

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Ectasia TGLs = 1-8]	Ectasia	Minimal
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Testes	Degeneration	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 549

DOSE: Control

DISP: Natural Death

HISTO: 60606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|------------------------|-------------------|-------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
| * Nose | * Pancreas | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Testes | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|-----------------|---------------------|
| * Mammary Gland | * Parathyroid Gland |
|-----------------|---------------------|

AUTO PRECLUDES DIAG.

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Gallbladder | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric | * Stomach, Glandular |

INSUFFICIENT TISSUE

- * Lymph Node, Mediastinal

OBSERVATIONS

- | | | | |
|-------------------|--|--------------------------|-------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Larynx | Epiglottis | Hyperplasia | Squamous, Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Liver | | Basophilic Focus | |
| | Hepatocyte | Hepatocellular Carcinoma | Multiple |
| | [Hepatocellular Carcinoma TGLs = 1,2-6+12] | Necrosis | Moderate |
| * Pituitary Gland | Pars Distalis | Cyst | |
| * Thymus | | Atrophy | Minimal |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60607

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Bronchial	* Pancreas	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Medulla		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Mild
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Moderate
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Hepatocellular Carcinoma	Multiple
	[Hepatocellular Carcinoma TGLs = 2,3-12+13]		
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Hyperplasia	Lymphoid, Mild

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 723

DOSE: Control

DISP: Natural Death

HISTO: 60608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland
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INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
	Atrium	Inflammation	Chronic Active, Moderate
		Thrombosis	Moderate
	[Thrombosis TGLs = 3-5]		
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Hepatocellular Carcinoma	Multiple
	[Hepatocellular Carcinoma TGLs = 4,5,6-5+12+13]		
* Lung		Alveolar/Bronchiolar Carcinoma	Metastatic (Liver)
		Hepatocellular Carcinoma	Histiocyte, Moderate
		Infiltration Cellular	Chronic, Mild
		Inflammation	Mild
		Pigmentation	
	[Alveolar/Bronchiolar Carcinoma TGLs = 2-12]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 723

DOSE: Control

DISP: Natural Death

HISTO: 60608

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Angiectasis	Mild
* Nose		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes		Degeneration	Minimal
* Thymus		Ectopic Parathyroid Gland	Minimal

PRIMARY CAUSE OF DEATH - Heart Atrium Thrombosis

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Eosinophilic Focus	
	[Eosinophilic Focus TGLs = 2-12]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Minimal
* Urinary Bladder		Calculus Micro Observation Only	Minimal
	[Calculus Micro Observation Only TGLs = 1-9]		

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60610

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mediastinal	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Bone Marrow	Lymphoma Malignant	
* Epididymis	Exfoliated Germ Cell	
* Harderian Gland	Carcinoma	
[Carcinoma TGLs = 3-11]		
* Intestine Small, Duodenum	Lymphoma Malignant	
[Lymphoma Malignant TGLs = 12-14]		
* Intestine Small, Jejunum	Lymphoma Malignant	
[Lymphoma Malignant TGLs = 13-15]		
* Kidney	Nephropathy	Mild
* Larynx	Inflammation	Chronic Active, Minimal
* Liver	Hepatocellular Adenoma	
	Hepatocellular Carcinoma	Multiple
	Lymphoma Malignant	
[Hepatocellular Adenoma TGLs = 4-13]		
[Hepatocellular Carcinoma TGLs = 5,6-5+12]		
[Lymphoma Malignant TGLs = 6,7-5+6]		
* Lung	Lymphoma Malignant	
Lymph Node	Lymphoma Malignant	
	Pancreatic	
	Renal	
[Lymphoma Malignant TGLs = 9-12]	Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60610

ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant	TGLs = 10-13]		
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant	TGLs = 11-7]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Inflammation	Mild
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant	TGLs = 8-5]		
* Urinary Bladder		Lymphoma Malignant	
[Lymphoma Malignant	TGLs = 2-9]		

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Moderate
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Brain		Infiltration Cellular	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Hyperplasia	Lymphoid, Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	[Eosinophilic Focus TGLs = 3-6]		
	[Hepatocellular Adenoma TGLs = 2,4,5-5+12+13]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1-9]		
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
	[Angiectasis TGLs = 3-5]		
	[Clear Cell Focus TGLs = 2-13]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLs = 1-12]		
* Nose	Respirat Epith	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 388

DOSE: Control

DISP: Natural Death

HISTO: 60613

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal * Thymus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Heart		Mineralization	Mild
	Atrium	Thrombosis	Moderate
* Larynx		Inflammation	Chronic Active, Minimal
* Liver	Centrilobular, Hepatocyte	Necrosis	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60614

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|---------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Bronchial | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Pancreas | * Pituitary Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- | | | | |
|--------------------------|-----------------|---------------------|----------|
| * Lymph Node, Mandibular | * Mammary Gland | * Parathyroid Gland | * Thymus |
|--------------------------|-----------------|---------------------|----------|

OBSERVATIONS

- | | | | |
|-------------------|---|--------------------------------|--------------------------|
| * Epididymis | | Exfoliated Germ Cell | |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| * Liver | | Hepatocellular Carcinoma | |
| | [Hepatocellular Carcinoma TGLs = 5-14] | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| | [Alveolar/Bronchiolar Carcinoma TGLs = 2-4] | | |
| Mesentery | Fat | Necrosis | Minimal |
| | [Necrosis TGLs = 1-15] | | |
| * Nose | Respirat Epith | Hyperplasia | Minimal |
| * Preputial Gland | | Inflammation | Chronic Active, Moderate |
| * Skin | | Inflammation | Chronic Active, Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60615

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Thymus
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Kidney		Inflammation	Chronic Active, Mild
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Hepatocyte	Hypertrophy	Minimal
	Hepatocyte	Necrosis	Minimal
	[Hepatocellular Adenoma TGLs = 1-6]		
	[Hepatocellular Carcinoma TGLs = 2-12]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Mild
* Seminal Vesicle		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 649

DOSE: Control

DISP: Natural Death

HISTO: 60616

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
* Liver		Hepatocellular Carcinoma	Multiple
	[Hepatocellular Carcinoma TGLs = 2,3-16+17]		
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
		Hepatocellular Carcinoma	Metastatic (Liver)
	[Alveolar/Bronchiolar Adenoma TGLs = 7,9-13+15]		
	[Hepatocellular Carcinoma TGLs = 4,5,6,8,10-4+12+14]		
* Lymph Node, Bronchial		Hepatocellular Carcinoma	Metastatic (Liver)
Mesentery	Fat	Necrosis	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Hepatocellular Carcinoma	Metastatic (Liver)

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma
 CONTRIBUTORY CAUSE OF DEATH - Lung Hepatocellular Carcinoma Liver

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60617

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|---------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Bronchial | * Lymph Node, Mediastinal | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Urinary Bladder | | |

MISSING

- | | | |
|---------------|--------------------------|-----------------|
| * Gallbladder | * Lymph Node, Mandibular | * Mammary Gland |
|---------------|--------------------------|-----------------|

INSUFFICIENT TISSUE

- * Trachea

OBSERVATIONS

- | | | | |
|--------------------------|---|--------------------------------|-------------------------|
| * Adrenal Cortex | | Adenoma | |
| * Epididymis | | Exfoliated Germ Cell | |
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| * Liver | | Clear Cell Focus | |
| | [Clear Cell Focus TGLs = 2-6] | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| | [Alveolar/Bronchiolar Carcinoma TGLs = 1-4] | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Minimal |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60618

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLs = 1-12]			
* Nose	Respirat Epith	Hyperplasia	Mild
* Preputial Gland		Ectasia	Minimal
		Inflammation	Chronic Active, Minimal
* Testes		Degeneration	Minimal
* Thymus		Cyst	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60619

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Brain		Inflammation	Chronic Active, Minimal
* Epididymis		Exfoliated Germ Cell	
* Gallbladder		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	[Hepatocellular Adenoma TGLs = 3-5]		
	[Hepatocellular Carcinoma TGLs = 1,2,4-5+12+13]		
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60620

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|-----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
| * Pancreas | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|-----------------|---------------------|
| * Mammary Gland | * Parathyroid Gland |
|-----------------|---------------------|

OBSERVATIONS

- | | | | |
|----------------------------|----------------|----------------------|-------------------------|
| * Epididymis | | Exfoliated Germ Cell | |
| * Intestine Small, Ileum | | Hyperplasia | Lymphoid, Mild |
| * Intestine Small, Jejunum | | Hyperplasia | Lymphoid, Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| * Liver | | Basophilic Focus | |
| * Lymph Node, Mesenteric | | Hyperplasia | Plasma Cell, Moderate |
| * Nose | Respirat Epith | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Hyperplasia | Lymphoid, Minimal |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 201

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60871

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Mammary Gland
-------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		Mixed Cell Focus	
	[Hepatocellular Adenoma TGLs = 2-6]		
	[Hepatocellular Carcinoma TGLs = 1-5]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 202

TRT#: 3

SEX: Male

DAY ON TEST: 621

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60872

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| Spinal Cord | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|-------------------|-------------------------|-------------------------------|----------------------|
| * Bone | | Fibro-Osseous Lesion | |
| | | Osteoma | |
| | [Osteoma TGLs = 1-12] | | |
| * Epididymis | | Exfoliated Germ Cell | |
| * Harderian Gland | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Larynx | | Inflammation | Chronic Active, Mild |
| | Epiglottis | Metaplasia | Squamous, Mild |
| * Liver | | Eosinophilic Focus | |
| * Nose | Respirat Epith | Accumulation, Hyaline Droplet | Minimal |
| | Respirat Epith | Hyperplasia | Minimal |
| Peripheral Nerve | | Degeneration | Minimal |
| * Preputial Gland | Duct | Ectasia | Marked |
| Skeletal Muscle | | Degeneration | Minimal |

PRIMARY CAUSE OF DEATH - Bone Osteoma

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 203

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60873

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Hepatocyte	Hepatocellular Carcinoma	
		Necrosis	Minimal
	[Clear Cell Focus TGLs = 2-13]		
	[Eosinophilic Focus TGLs = 3-6]		
	[Hepatocellular Carcinoma TGLs = 4-12]		
	[Necrosis TGLs = 1-14]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 203

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60873

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Inflammation

Chronic Active, Minimal

Hyperplasia

Lymphoid, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 204

TRT#: 3

SEX: Male

DAY ON TEST: 674

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60874

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Parathyroid Gland	* Pituitary Gland
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Chronic Active, Minimal
		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Hepatocellular Carcinoma	Multiple
* Lung	[Hepatocellular Carcinoma TGLs = 10-12]		
	Mediastinum	Hepatocellular Carcinoma	Metastatic (Liver)
		Hepatocellular Carcinoma	Metastatic (Liver)
	[Hepatocellular Carcinoma TGLs = 12-6]		
	[Hepatocellular Carcinoma TGLs = 1,2,3,4,5,6,7,8,9-4]		
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 204

TRT#: 3

SEX: Male

DAY ON TEST: 674

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60874

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Duct	Inflammation	Chronic Active, Minimal
* Prostate		Ectasia	Moderate
* Seminal Vesicle		Inflammation	Marked
* Urinary Bladder		Inflammation	Marked
		Ulcer	Suppurative, Marked

[Inflammation TGLs = 11-9]

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma
CONTRIBUTORY CAUSE OF DEATH - Lung Hepatocellular Carcinoma Liver

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 205

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60875

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	[Eosinophilic Focus TGLs = 6-5]		
	[Hepatocellular Adenoma TGLs = 1,2,3,4,5,7-5+12+13+14+15+17]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 205

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60875

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Hyperplasia

Lymphoid, Minimal

Animal Note: TGL 8=NCL (No Corresponding Lesion)

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 206

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60876

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Harderian Gland		Adenoma	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Hepatocyte	Necrosis	Mild
	[Basophilic Focus TGLs = 3-12]		
	[Hepatocellular Adenoma TGLs = 4-13]		
	[Hepatocellular Carcinoma TGLs = 2-15]		
* Lung		Inflammation	Chronic, Minimal
Mesentery		Hepatocellular Carcinoma	Metastatic (Liver)
	[Hepatocellular Carcinoma TGLs = 5-14]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 206

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60876

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Moderate
* Skin		Inflammation	Chronic Active, Marked
		Ulcer	Marked
	[Inflammation TGLs = 1-8]		
	[Ulcer TGLs = 1-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Mesentery Hepatocellular Carcinoma Liver

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 207

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60877

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLs = 1,2-5+6]		
	[Hepatocellular Carcinoma TGLs = 1-6]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLs = 3-4]		
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 207

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60877

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Inflammation	Chronic Active, Minimal
* Stomach, Forestomach	Angiectasis	Minimal
* Testes	Inflammation	Chronic Active, Minimal
Tooth	Degeneration	Minimal
	Dysplasia	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 208

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60878

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Harderian Gland		Adenoma	
	[Adenoma TGLs = 1-11]		
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Clear Cell Focus	
		Mixed Cell Focus	
	[Mixed Cell Focus TGLs = 3-5]		
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
	[Alveolar/Bronchiolar Adenoma TGLs = 2-12]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Infiltration Cellular	Lymphoid, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 208

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60878

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hyperplasia

Lymphoid, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 209

TRT#: 3

SEX: Male

DAY ON TEST: 550

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60879

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Angiectasis	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Gallbladder		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Carcinoma	Multiple
	[Hepatocellular Carcinoma TGLs = 8,9-5+13]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	[Hepatocellular Carcinoma TGLs = 1,2,3,4,5,6-4+6+12+13+14+15]	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Bronchial		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 209

TRT#: 3

SEX: Male

DAY ON TEST: 550

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60879

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Turbinate	Atrophy	Minimal
	Olfactory Epi	Atrophy	Minimal
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
	Lateral Wall	Inflammation	Chronic Active, Moderate
	Respirat Epith	Metaplasia	Squamous, Minimal
* Spleen	Respirat Epith	Necrosis	Minimal
	[Hematopoietic Cell Proliferation TGLs = 10-5]	Hematopoietic Cell Proliferation	Mild
* Testes		Degeneration	Mild
Tooth		Dysplasia	Mild
		Inflammation	Suppurative, Chronic Active, Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma
 CONTRIBUTORY CAUSE OF DEATH - Lung Hepatocellular Carcinoma Liver

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 210

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60880

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mediastinal | * Pancreas | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | |
|-----------------|---------------------|
| * Mammary Gland | * Parathyroid Gland |
|-----------------|---------------------|

INSUFFICIENT TISSUE

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|--|-------------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Minimal |
| * Bone | | Fibro-Osseous Lesion | |
| * Epididymis | | Exfoliated Germ Cell | |
| * Kidney | | Lymphoma Malignant | |
| | | Nephropathy | Mild |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Mild |
| * Liver | | Basophilic Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | [Hepatocellular Adenoma TGLs = 1,2,3-5+12] | | |
| * Lung | | Lymphoma Malignant | |
| * Lymph Node, Bronchial | | Lymphoma Malignant | |
| * Lymph Node, Mesenteric | | Lymphoma Malignant | |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 210

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60880

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Inflammation

Chronic Active, Minimal

Lymphoma Malignant

* Testes

Degeneration

Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 211

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60881

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Heart		Inflammation	Chronic Active, Mild
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLs = 2-14]			
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
* Testes		Degeneration	Minimal

Animal Note: TGL 1=NCL (No Corresponding Lesion)

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 212

TRT#: 3

SEX: Male

DAY ON TEST: 644

DOSE: 10 mg/m3

DISP: Natural Death

HISTO: 60882

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
[Hyperplasia TGLs = 6-3]			
* Epididymis		Exfoliated Germ Cell	
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Adenoma	
	Hepatocyte	Hypertrophy	Minimal
	Hepatocyte	Necrosis	Minimal
[Hepatocellular Adenoma TGLs = 3-6]			
* Lung	Alv/Bron Epith	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
Mesentery		Hemangiosarcoma	
[Hemangiosarcoma TGLs = 5-12]			
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 212

TRT#: 3

SEX: Male

DAY ON TEST: 644

DOSE: 10 mg/m3

DISP: Natural Death

HISTO: 60882

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Hyperplasia	Mild
	Necrosis	Minimal
[Hyperplasia TGLs = 1-13]		
[Necrosis TGLs = 1-13]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLs = 4-5]		
* Thymus	Atrophy	Mild

PRIMARY CAUSE OF DEATH - Mesentery Hemangiosarcoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 213

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60883

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Clear Cell Focus	
		Mixed Cell Focus	
	[Mixed Cell Focus TGLs = 1,2-12+13]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 214

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60884

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Bronchial | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas |
| * Pituitary Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|-----------------|---------------------|
| * Mammary Gland | * Parathyroid Gland |
|-----------------|---------------------|

OBSERVATIONS

- | | | | |
|--------------------------|--|-------------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Minimal |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Minimal |
| * Epididymis | | Exfoliated Germ Cell | |
| * Harderian Gland | | Adenoma | |
| * Kidney | | Nephropathy | Mild |
| * Larynx | | Inflammation | Chronic Active, Mild |
| | Epiglottis | Metaplasia | Squamous, Mild |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Tension Lipidosis | Minimal |
| | [Hepatocellular Adenoma TGLs = 2,3,4-5+6+12] | | |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphoid, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Preputial Gland | | Ectasia | Minimal |
| | [Ectasia TGLs = 1-8] | | |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 215

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60885

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mesenteric
* Pancreas	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[Clear Cell Focus TGLs = 1-5]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 216

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60886

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Trachea			

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
* Thyroid Gland			

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Intestine Small, Ileum		Cyst	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 1,2-6+12]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[Alveolar/Bronchiolar Carcinoma TGLs = 3-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 216

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60886

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach
[Squamous Cell Papilloma TGLs = 4-9]

Squamous Cell Papilloma

* Testes

Degeneration

Minimal

* Urinary Bladder

Angiectasis

Minimal

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 217

TRT#: 3

SEX: Male

DAY ON TEST: 487

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60887

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Epididymis
- * Esophagus
- * Gallbladder
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Lung
- * Lymph Node, Mandibular
- * Lymph Node, Mediastinal
- * Lymph Node, Mesenteric
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Skin
- * Spleen
- * Stomach, Forestomach
- * Stomach, Glandular
- * Testes
- * Thymus
- * Thyroid Gland
- * Trachea
- * Urinary Bladder

MISSING

- * Lymph Node, Bronchial
- * Mammary Gland

OBSERVATIONS

- * Bone Marrow
- Myeloid Cell
- Hyperplasia
- Minimal
- * Eye
- Inflammation
- Chronic Active, Mild
- * Islets, Pancreatic
- Hyperplasia
- Minimal
- * Kidney
- Nephropathy
- Minimal
- * Larynx
- Inflammation
- Chronic Active, Minimal
- Epiglottis
- Metaplasia
- Squamous, Mild
- * Liver
- Centrilobular, Hepatocyte
- Fatty Change
- Mild
- * Nose
- Olfactory Epi
- Accumulation, Hyaline Droplet
- Minimal
- Turbinate
- Atrophy
- Mild
- Exudate
- Mild
- Nasopharyn Dct
- Hyperplasia
- Moderate
- Respirat Epith
- Hyperplasia
- Minimal
- Lateral Wall
- Inflammation
- Chronic Active, Marked
- Nasopharyn Dct
- Inflammation
- Chronic Active, Moderate
- Respirat Epith
- Metaplasia
- Squamous, Minimal
- Olfactory Epi
- Metaplasia
- Respiratory, Minimal
- Lateral Wall
- Necrosis
- Marked
- Tooth
- Inflammation
- Suppurative, Chronic Active, Marked

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 217

TRT#: 3

SEX: Male

DAY ON TEST: 487

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60887

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Nose Lateral Wall Inflammation

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 218

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Adenoma	Multiple
	Hepatocyte	Necrosis	Minimal
	[Hepatocellular Adenoma TGLs = 1,2,3-5+13+12]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
* Testes		Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 219

TRT#: 3

SEX: Male

DAY ON TEST: 481

DOSE: 10 mg/m3

DISP: Natural Death

HISTO: 60889

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum * Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant	
* Bone Marrow		Lymphoma Malignant	
* Gallbladder		Lymphoma Malignant	
* Harderian Gland		Inflammation	Minimal
* Kidney		Lymphoma Malignant	
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Lymphoma Malignant	
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Lymphoma Malignant	
		Pigmentation	Mild
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 3-7]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 219

TRT#: 3

SEX: Male

DAY ON TEST: 481

DOSE: 10 mg/m3

DISP: Natural Death

HISTO: 60889

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Skin	Subcut Tiss	Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 1-12]		
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 2-5]		
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
		Lymphoma Malignant	
		Necrosis	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Lymph Node, Mesenteric Lymphoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Lymphoma Malignant

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 220

TRT#: 3

SEX: Male

DAY ON TEST: 572

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60890

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Necrosis	Mild
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver	Epiglottis	Metaplasia	Squamous, Mild
	Centrilobular, Hepatocyte	Fatty Change	Moderate
	Hepatocyte	Necrosis	Mild
	[Necrosis TGLs = 1,2,3-6+12+13]		
* Lung	Alv/Bron Epith	Hyperplasia	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Pancreas		Hemorrhage	Acute, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Spleen		Necrosis	Lymphoid, Mild
	[Necrosis TGLs = 4-5]		
* Testes		Degeneration	Minimal
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 220

TRT#: 3

SEX: Male

DAY ON TEST: 572

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60890

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Liver Hepatocyte Necrosis

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 221

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Bronchial	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Brain		Infiltration Cellular	Moderate
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Inflammation	Minimal
* Intestine Large, Rectum		Inflammation	Mild
* Kidney		Hyperplasia	Lymphoid, Mild
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLs = 2,4-5+6]		
	[Hepatocellular Carcinoma TGLs = 3-12]		
* Lymph Node, Mesenteric		Infiltration Cellular	Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 221

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60891

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Inflammation TGLs = 5-8]	Inflammation	Chronic Active, Moderate
* Seminal Vesicle [Inflammation TGLs = 1-9]	Inflammation	Moderate
* Skin	Hyperplasia Inflammation	Mild Chronic Active, Mild
* Stomach, Forestomach	Infiltration Cellular	Lymphoid, Minimal
* Testes	Degeneration	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 222

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60892

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Prostate

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Marked
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLs = 1,2-5+12]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Minimal
Mesentery		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
	Lateral Wall	Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 222

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60892

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Inflammation	Chronic Active, Minimal
	Hepatocellular Carcinoma	Metastatic (Liver)
	Inflammation	Chronic Active, Mild
* Preputial Gland	Inflammation	Chronic Active, Mild
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Testes	Degeneration	Mild
Tooth	Dysplasia	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 223

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60893

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Mild
* Kidney		Infarct	Chronic, Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Minimal
	[Alveolar/Bronchiolar Adenoma TGLs = 6-12]		
	[Alveolar/Bronchiolar Carcinoma TGLs = 5-4]		
	[Infiltration Cellular TGLs = 4-4]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 223

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60893

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Marked
	[Inflammation TGLs = 1-8]		
* Spleen		Hyperplasia	Lymphoid, Minimal
* Testes		Necrosis	Minimal
	[Necrosis TGLs = 2-8]		
* Thymus		Cyst	
Tooth		Dysplasia	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 224

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60894

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Eosinophilic Focus	
	Hepatocyte	Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 2-5]	Necrosis	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Parathyroid Gland		Cyst	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 224

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60894

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland
[Inflammation TGLs = 1-8]

Inflammation

Chronic Active, Moderate

* Testes

Degeneration

Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 225

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Islets, Pancreatic		Hyperplasia	Marked
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 1-12]		
* Lung	Alv/Bron Epith	Alveolar/Bronchiolar Carcinoma	
		Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Minimal
	[Alveolar/Bronchiolar Carcinoma TGLs = 2-4]		
	[Infiltration Cellular TGLs = 3-4]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 225

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60895

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLs = 4-13]	Fat	Necrosis	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 226

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60896

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal	* Thymus
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Harderian Gland		Adenoma	
* Heart		Inflammation	Chronic Active, Mild
	Endocardium	Schwannoma Benign	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	[Hepatocellular Adenoma TGLs = 4,6,7-5+6+12]		
	[Hepatocellular Carcinoma TGLs = 3,8-5+13]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
	[Alveolar/Bronchiolar Adenoma TGLs = 5-12]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 226

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60896

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Skin	Subcut Tiss	Inflammation	Chronic Active, Marked
		Ulcer	Marked
	[Inflammation TGLs = 1,2-13+14]		
	[Ulcer TGLs = 1,2-13+14]		
* Spleen		Hematopoietic Cell Proliferation	Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 227

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60897

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lung |
| * Lymph Node, Bronchial | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

- | | | | |
|--------------------------|----------------|-----------------------------------|--------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Hypertrophy | Minimal |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| * Epididymis | | Exfoliated Germ Cell | |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Small, Ileum | | Hyperplasia | Lymphoid, Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Mild |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | Lateral Wall | Inflammation | Chronic Active, Moderate |
| | | Inflammation | Chronic Active, Minimal |
| * Preputial Gland | | Ectasia | Minimal |
| * Spleen | | Hyperplasia | Lymphoid, Minimal |
| Tooth | | Dysplasia | Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 228

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60898

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone		Hyperostosis	Minimal
[Hyperostosis TGLs = 2-12]			
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Brain		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLs = 4,5-5+6]			
* Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
[Alveolar/Bronchiolar Carcinoma TGLs = 1-4]			
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
	Lateral Wall	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 228

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60898

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Inflammation TGLs = 3-8]	Inflammation	Chronic Active, Marked
* Skin	Inflammation	Chronic Active, Minimal
* Stomach, Glandular	Inflammation	Chronic Active, Minimal
Tooth	Dysplasia	Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 229

TRT#: 3

SEX: Male

DAY ON TEST: 628

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60899

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal	* Thymus
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLs = 4-6]		
* Kidney		Metaplasia	Osseous, Minimal
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 2-5]	Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLs = 3-12]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 229

TRT#: 3

SEX: Male

DAY ON TEST: 628

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60899

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Skin		Inflammation	Chronic Active, Moderate
		Necrosis	Moderate
	[Inflammation TGLs = 1-13]		
	[Necrosis TGLs = 1-13]		
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 230

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60900

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mediastinal	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	
	[Clear Cell Focus TGLs = 3-14]		
	[Hepatocellular Adenoma TGLs = 1-13]		
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLs = 4-7]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 230

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60900

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: TGL 2 = NCL (No Corresponding Lesion)

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 231

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60901

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Pancreas	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Eosinophilic Focus	
	[Eosinophilic Focus TGLs = 1-5]		
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Nasopharyn Dct	Perforation	
* Pituitary Gland	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 231

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60901

ORGAN AND ACCOUNTABLE SITE STATUS

Pars Distalis

Hyperplasia

Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 232

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60902

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Foreign Body	Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLs = 2-5]		
	[Hepatocellular Carcinoma TGLs = 1-12]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 233

TRT#: 3

SEX: Male

DAY ON TEST: 628

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60903

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal * Thymus

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLs = 2-5+13]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
* Skin		Inflammation	Chronic Active, Mild
		Necrosis	Moderate
	[Inflammation TGLs = 1-12]		
	[Necrosis TGLs = 1-12]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 233

TRT#: 3

SEX: Male

DAY ON TEST: 628

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60903

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Mild

* Testes

Degeneration

Minimal

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 234

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60904

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
	Subcapsular	Hypertrophy	Mild
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLs = 1-6]		
	[Hepatocellular Carcinoma TGLs = 2-13]		
* Lung		Inflammation	Chronic, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
	Lateral Wall	Inflammation	Chronic Active, Moderate
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 234

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60904

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Degeneration	Minimal
* Thymus	Cyst	
Tooth	Dysplasia	Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 235

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60905

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 1,2-5+12]		
* Lymph Node, Bronchial		Hematopoietic Cell Proliferation	Minimal
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 236

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60906

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Lymph Node, Mediastinal

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------|-------------------------------|-------------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Mild |
| | Epiglottis | Metaplasia | Squamous, Mild |
| * Liver | | Basophilic Focus | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Inflammation | Chronic, Minimal |
| | [Alveolar/Bronchiolar Adenoma | TGLs = 1-12] | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 4-6] | | |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Preputial Gland | | Histiocytic Sarcoma | |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 236

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60906

ORGAN AND ACCOUNTABLE SITE STATUS

[Histiocytic Sarcoma TGLs = 3-8]			
* Skin	Subcut Tiss	Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLs = 2-13]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Histiocytic Sarcoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 237

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60907

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Hyperplasia	Lymphoid, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 238

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60908

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland	Pleura
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Eye		Inflammation	Chronic Active, Minimal
* Harderian Gland		Carcinoma	
[Carcinoma TGLs = 1-11]			
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLs = 3-15]			
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alv/Bron Epith	Hyperplasia	Moderate
[Alveolar/Bronchiolar Carcinoma TGLs = 2-12]			
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Mild
	Nasolacrim Dct	Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 238

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60908

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland

Inflammation

Chronic Active, Minimal

* Spleen

Hyperplasia

Lymphoid, Mild

* Thymus

Hyperplasia

Lymphoid, Minimal

Animal Note: TGL 5=NCL (No Corresponding Lesion)

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 239

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60909

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
		Necrosis	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Tension Lipidosis	Minimal
	[Clear Cell Focus TGLs = 2-5]		
	[Hepatocellular Adenoma TGLs = 3,4-5+13]		
	[Hepatocellular Carcinoma TGLs = 1-12]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 239

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60909

ORGAN AND ACCOUNTABLE SITE STATUS

Respirat Epith

Hyperplasia

Mild

Inflammation

Chronic Active, Minimal

* Stomach, Glandular

Inflammation

Chronic Active, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 240

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60910

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular * Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Clear Cell Focus	
		Hepatocellular Carcinoma	
	[Clear Cell Focus TGLs = 1,3-5]		
	[Hepatocellular Carcinoma TGLs = 2-12]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 240

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60910

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Cyst

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 241

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60911

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Epididymis		Exfoliated Germ Cell	
* Kidney		Infarct	Chronic, Minimal
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 1-5]		
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Lymphoid, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 242

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60912

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose

Olfactory Epi

Accumulation, Hyaline Droplet

Mild

Respirat Epith

Accumulation, Hyaline Droplet

Mild

Respirat Epith

Hyperplasia

Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 243

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60913

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
		Inflammation	Chronic Active, Mild
* Eye		Inflammation	Chronic Active, Mild
* Harderian Gland		Carcinoma	
	[Carcinoma TGLs = 1-11]		
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 2-6]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
	Nasolacrim Dct	Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 243

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60913

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland
* Spleen
* Thymus

Inflammation
Ectasia
Hyperplasia
Hyperplasia

Chronic Active, Minimal
Minimal
Lymphoid, Minimal
Lymphoid, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 244

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60914

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Infiltration Cellular	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Metaplasia	Osseous, Minimal
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 1-12]		
* Nose		Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
	Respirat Epith	Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Testes		Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 245

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60915

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Inflammation	Mild
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Hyperplasia	Lymphoid, Minimal
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 4-5]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
	Alv/Bron Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 245

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60915

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation Chronic, Minimal

[Alveolar/Bronchiolar Adenoma TGLs = 2-12]

[Alveolar/Bronchiolar Carcinoma TGLs = 3-4]

* Lymph Node, Mesenteric

* Nose

Olfactory Epi

Respirat Epith

Respirat Epith

* Skin

Lateral Wall

[Cyst Epithelial Inclusion TGLs = 5-12]

* Spleen

* Testes

Interstit Cell

[Adenoma TGLs = 1-8]

* Thymus

Tooth

Hyperplasia Lymphoid, Minimal

Accumulation, Hyaline Droplet Minimal

Accumulation, Hyaline Droplet Mild

Hyperplasia Minimal

Inflammation Chronic Active, Minimal

Inflammation Chronic Active, Mild

Cyst Epithelial Inclusion

Hyperplasia Lymphoid, Minimal

Adenoma Mild

Degeneration Mild

Ectopic Parathyroid Gland Minimal

Dysplasia Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 246

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60916

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alv/Bron Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
	[Alveolar/Bronchiolar Carcinoma	TGLs = 1-4]	
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 2-12]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 246

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60916

ORGAN AND ACCOUNTABLE SITE STATUS

Respirat Epith

Accumulation, Hyaline Droplet

Mild

Exudate

Minimal

Respirat Epith

Hyperplasia

Mild

Inflammation

Chronic Active, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 247

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60917

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Brain	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone		Fibro-Osseous Lesion	
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Eye		Inflammation	Chronic Active, Minimal
* Gallbladder		Inflammation	Chronic Active, Minimal
* Harderian Gland		Carcinoma	
[Carcinoma TGLs = 1-11]			
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Lung		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic, Minimal
		Pigmentation	Mild
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 247

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60917

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hyperplasia

Lymphoid, Minimal

* Stomach, Forestomach

Hyperplasia

Minimal

* Testes

Degeneration

Minimal

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 248

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60918

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Epididymis
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Bronchial
- * Pituitary Gland
- * Seminal Vesicle
- * Thymus
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Lymph Node, Mediastinal
- * Preputial Gland
- * Skin
- * Thyroid Gland
- * Bone
- * Eye
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Pancreas
- * Prostate
- * Spleen
- * Trachea
- * Brain
- * Gallbladder
- * Intestine Large, Rectum
- * Lung
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Forestomach
- * Urinary Bladder

MISSING

- * Lymph Node, Mandibular
- * Mammary Gland

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Intestine Small, Ileum
- * Kidney
- * Larynx
- * Liver
- [Hepatocellular Adenoma TGLs = 1,2,4-5+6]
- [Hepatocellular Carcinoma TGLs = 3-12]
- * Lymph Node, Mesenteric
- * Nose
- * Stomach, Glandular
- * Testes
- Myeloid Cell
- Epiglottis
- Hypertrophy
- Hyperplasia
- Cardiomyopathy
- Inflammation
- Nephropathy
- Inflammation
- Metaplasia
- Hepatocellular Adenoma
- Hepatocellular Carcinoma
- Hematopoietic Cell Proliferation
- Hyperplasia
- Accumulation, Hyaline Droplet
- Accumulation, Hyaline Droplet
- Hyperplasia
- Inflammation
- Inflammation
- Degeneration
- Mild
- Mild
- Minimal
- Minimal
- Mild
- Chronic Active, Minimal
- Squamous, Mild
- Multiple
- Minimal
- Lymphoid, Mild
- Minimal
- Mild
- Minimal
- Chronic Active, Minimal
- Chronic Active, Mild
- Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 249

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60919

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Harderian Gland		Adenoma	
	[Adenoma TGLs = 3-11]		
* Heart		Cardiomyopathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Tension Lipidosis	Minimal
	[Hepatocellular Adenoma TGLs = 1,2-6+12]		
* Lung		Alveolar/Bronchiolar Carcinoma	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 249

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60919

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Duct	Inflammation Hyperplasia	Chronic Active, Minimal Minimal
* Thymus		Inflammation	Chronic Active, Minimal
Tooth		Ectopic Parathyroid Gland Dysplasia	Minimal Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 250

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60920

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Bronchial |
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas |
| * Pituitary Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Spleen | * Stomach, Forestomach | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|-----------------|---------------------|
| * Mammary Gland | * Parathyroid Gland |
|-----------------|---------------------|

OBSERVATIONS

- | | | | |
|------------------|---|-------------------------------|-------------------------|
| * Adrenal Cortex | Subcapsular | Adenoma | |
| | | Hypertrophy | Minimal |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Minimal |
| | | Necrosis | Minimal |
| * Epididymis | | Exfoliated Germ Cell | |
| * Heart | | Inflammation | Chronic Active, Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Mild |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Hepatocyte | Necrosis | Mild |
| | [Hepatocellular Adenoma TGLs = 3,5,7-12+15+14] | | |
| | [Hepatocellular Carcinoma TGLs = 2,4,6-5+13+16] | | |
| * Lung | | Thrombosis | Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | | Exudate | Minimal |
| | Respirat Epith | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 250

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60920

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Inflammation TGLs = 1-8]	Inflammation	Chronic Active, Moderate
* Skin	Inflammation	Chronic Active, Minimal
* Stomach, Glandular	Mineralization	Minimal
* Testes	Degeneration	Minimal
* Thymus	Atrophy	Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 401

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Gallbladder		Inflammation	Chronic Active, Minimal
* Harderian Gland		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
	[Eosinophilic Focus TGLs = 6-12]		
	[Hepatocellular Adenoma TGLs = 2,3-5]		
	[Mixed Cell Focus TGLs = 4,5-5+13]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 401

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60771

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Preputial Gland		Inflammation	Chronic Active, Marked
	[Inflammation TGLs = 1-14]		
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Forestomach		Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Thymus		Atrophy	Minimal
Tooth		Dysplasia	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 402

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Epididymis		Exfoliated Germ Cell	
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Tension Lipidosis	Minimal
	[Hepatocellular Adenoma TGLs = 1-5]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alv/Bron Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
	[Alveolar/Bronchiolar Carcinoma TGLs = 2-4]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 402

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60772

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Lateral Wall	Inflammation	Chronic Active, Mild
	Nasopharyn Dct	Perforation	
		Polyp, Inflammatory	
* Spleen		Hyperplasia	Lymphoid, Mild
Tooth		Dysplasia	Marked

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 403

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Inflammation	Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 1,2-5+6]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
	Nasopharyn Dct	Perforation	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 404

TRT#: 5

SEX: Male

DAY ON TEST: 662

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60774

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLs = 7-5]

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Lung Hepatocellular Carcinoma Liver

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 405

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60775

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland

Ectasia

Minimal

[Ectasia TGLs = 1-8]

* Thymus

Atrophy

Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 406

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60776

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Adrenal Medulla	* Lymph Node, Bronchial	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Epididymis		Exfoliated Germ Cell	
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver	Epiglottis	Metaplasia	Squamous, Moderate
	Serosa	Fibrosis	Mild
		Inflammation	Chronic Active, Minimal
	[Fibrosis TGLs = 2-12]		
	[Inflammation TGLs = 3-13]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Mild
	[Alveolar/Bronchiolar Carcinoma TGLs = 1-4]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Stomach, Forestomach		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 406

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60776

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Inflammation
Alveolar/Bronchiolar Carcinoma

Chronic Active, Minimal
Metastatic (Lung)

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 407

TRT#: 5

SEX: Male

DAY ON TEST: 647

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Pancreas	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Harderian Gland		Adenoma	
[Adenoma TGLs = 7-11]			
* Kidney		Angiectasis	Mild
		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Carcinoma	Multiple
[Hepatocellular Carcinoma TGLs = 8,9-5+12+15]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
[Hepatocellular Carcinoma TGLs = 1,2,3,4,5,6-4+6+12+13+14+15]			
* Lymph Node, Mediastinal		Hematopoietic Cell Proliferation	Minimal
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 407

TRT#: 5

SEX: Male

DAY ON TEST: 647

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60777

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
		Inflammation	Chronic Active, Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
	[Hematopoietic Cell Proliferation	TGLs = 10-5]	

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma
CONTRIBUTORY CAUSE OF DEATH - Lung Hepatocellular Carcinoma Liver

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 408

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 1,2,4-5+6]		
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 408

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60778

ORGAN AND ACCOUNTABLE SITE STATUS

	Turbinate	Inflammation	Chronic Active, Mild
	Nasopharyn Dct	Perforation	
* Skin	Subcut Tiss	Perforation	
	[Hemangiosarcoma TGLs = 3-12]	Hemangiosarcoma	
* Spleen		Histiocytic Sarcoma	
* Testes		Degeneration	Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 409

TRT#: 5

SEX: Male

DAY ON TEST: 549

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Skin
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant	
* Epididymis		Exfoliated Germ Cell	
		Lymphoma Malignant	
* Gallbladder		Lymphoma Malignant	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Inflammation	Moderate
		Necrosis	Moderate
* Intestine Small, Jejunum		Inflammation	Marked
		Lymphoma Malignant	
		Necrosis	Marked
		Perforation	Marked
	[Lymphoma Malignant TGLs = 2-12]		
	[Perforation TGLs = 2-12]		
* Kidney		Lymphoma Malignant	
		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver	Periportal	Fatty Change	Mild
		Hepatoblastoma	
	[Hepatoblastoma TGLs = 1-6]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 409

TRT#: 5

SEX: Male

DAY ON TEST: 549

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60779

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mesenteric		Inflammation	Chronic Active, Mild
Mesentery		Lymphoma Malignant	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Atrophy	Mild
		Lymphoma Malignant	
* Seminal Vesicle		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
* Stomach, Forestomach		Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Lymphoma Malignant	
		Necrosis	Mild
* Stomach, Glandular		Lymphoma Malignant	
* Testes		Degeneration	Minimal
* Thymus		Atrophy	Mild
Urethra		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH - Intestine Small, Jejunum Lymphoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Intestine Small, Jejunum Perforation

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 410

TRT#: 5

SEX: Male

DAY ON TEST: 583

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lung
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLs = 1,4-6+13]		
	[Hepatocellular Carcinoma TGLs = 3-12]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Animal Note: TGL 2 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 411

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60781

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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INSUFFICIENT TISSUE

* Trachea

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	
		Tension Lipidosis	Minimal
	[Hepatocellular Adenoma TGLs = 1-5]		
* Lung		Alveolar/Bronchiolar Adenoma	
	Alv/Bron Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
	[Alveolar/Bronchiolar Adenoma TGLs = 3-12]		
	[Hyperplasia TGLs = 2-13]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 411

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60781

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Hemangioma	
		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Ectasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Testes		Degeneration	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 412

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60782

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Brain		Compression	Minimal
Note: Lipoma inducing compression			
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Eosinophilic Focus	
		Hepatocellular Carcinoma	
	[Eosinophilic Focus TGLs = 2-5]		
	[Hepatocellular Carcinoma TGLs = 1-12]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 412

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60782

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Mild

Cyst

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 413

TRT#: 5

SEX: Male

DAY ON TEST: 694

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60783

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Esophagus	* Heart
* Parathyroid Gland	* Prostate	* Seminal Vesicle	* Skin

MISSING

* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Pancreas
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AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Epididymis	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Larynx	Epiglottitis	Metaplasia	Squamous, Moderate
* Liver		Hepatocellular Adenoma	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 414

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60784

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Mixed Cell Focus	
	[Mixed Cell Focus TGLs = 2-6]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 415

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone		Fibro-Osseous Lesion	
* Epididymis		Exfoliated Germ Cell	
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Moderate
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Eosinophilic Focus	
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Marked
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 416

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60786

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mediastinal	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Brain		Infiltration Cellular	Minimal
* Epididymis		Exfoliated Germ Cell	
		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Basophilic Focus TGLs = 4-14]		
	[Eosinophilic Focus TGLs = 8-6]		
	[Hepatocellular Carcinoma TGLs = 3-15]		
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Angiectasis	Mild
		Hematopoietic Cell Proliferation	Mild
	[Angiectasis TGLs = 7-7]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 416

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60786

ORGAN AND ACCOUNTABLE SITE STATUS

	[Hematopoietic Cell Proliferation TGLs = 7-7]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Skin		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
	[Inflammation TGLs = 1-8+16]		
	[Ulcer TGLs = 1-8+16]		

Animal Note: TGL 6 = NCL (No Corresponding Lesion)

Animal Note: TGL 5 = NCL (No Corresponding Lesion)

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 417

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60787

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel	Aorta	Lymphoma Malignant	Metastatic (Spleen)
* Epididymis		Exfoliated Germ Cell	
* Harderian Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Lymphoma Malignant	
* Intestine Small, Ileum		Lymphoma Malignant	
* Intestine Small, Jejunum		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 9-12]		
* Islets, Pancreatic		Lymphoma Malignant	Metastatic (Spleen)
* Kidney		Lymphoma Malignant	
		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
		Mineralization	Minimal
		Necrosis	Minimal
* Liver		Eosinophilic Focus	
		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 417

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60787

ORGAN AND ACCOUNTABLE SITE STATUS

	[Lymphoma Malignant	TGLs = 3,4-5+6]		
* Lung			Lymphoma Malignant	
			Thrombosis	Moderate
Lymph Node	Renal		Lymphoma Malignant	
	Pancreatic		Lymphoma Malignant	
	Iliac		Lymphoma Malignant	
	[Lymphoma Malignant	TGLs = 5-13]		
	[Lymphoma Malignant	TGLs = 7-14]		
	[Lymphoma Malignant	TGLs = 6-15]		
* Lymph Node, Bronchial			Lymphoma Malignant	
* Lymph Node, Mandibular			Lymphoma Malignant	
* Lymph Node, Mediastinal			Lymphoma Malignant	
	[Lymphoma Malignant	TGLs = 1-3]		
* Lymph Node, Mesenteric			Lymphoma Malignant	
	[Lymphoma Malignant	TGLs = 8-12]		
* Nose	Olfactory Epi		Accumulation, Hyaline Droplet	Minimal
	Respirat Epith		Accumulation, Hyaline Droplet	Minimal
	Respirat Epith		Hyperplasia	Minimal
* Pancreas			Lymphoma Malignant	
* Preputial Gland			Lymphoma Malignant	
			Necrosis	Moderate
* Prostate			Lymphoma Malignant	
* Seminal Vesicle			Lymphoma Malignant	
* Skin			Lymphoma Malignant	
* Spleen			Lymphoma Malignant	
	[Lymphoma Malignant	TGLs = 2-5]		
* Stomach, Forestomach			Lymphoma Malignant	
* Stomach, Glandular			Lymphoma Malignant	
	[Lymphoma Malignant	TGLs = 10-14]		
* Testes			Degeneration	Minimal
* Thymus			Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 417

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60787

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Testes Degeneration

CONTRIBUTORY CAUSE OF DEATH

- Intestine Small, Jejunum Lymphoma Malignant

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 418

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60788

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Epididymis		Exfoliated Germ Cell	
* Gallbladder		Infiltration Cellular	Lymphoid, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Nasopharyn Dct	Perforation	
* Spleen		Hyperplasia	Lymphoid, Mild
* Testes		Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 419

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60789

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Stomach, Forestomach
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Gallbladder	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Inflammation	Chronic Active, Mild
		Nephropathy	Moderate
* Larynx	Epiglottis	Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Moderate
* Liver	[Hepatocellular Carcinoma TGLs = 1-5+6]	Hepatocellular Carcinoma	
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
	Nasolacrim Dct	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Prostate		Infiltration Cellular	Lymphoid, Mild
* Seminal Vesicle		Infiltration Cellular	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 419

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60789

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Inflammation	Chronic Active, Mild
* Spleen	Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Infiltration Cellular	Lymphoid, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 420

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60790

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Mixed Cell Focus	
* Lung	Alv/Bron Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 421

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Thymus | * Thyroid Gland |
| * Urinary Bladder | | | |

MISSING

- | | |
|---------------|-----------------|
| * Gallbladder | * Mammary Gland |
|---------------|-----------------|

OBSERVATIONS

- | | | | |
|-------------------------|---------------------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | | Adenoma | |
| * Epididymis | | Exfoliated Germ Cell | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Marked |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Marked |
| * Liver | | Hepatoblastoma | |
| | | Hepatocellular Adenoma | |
| | [Hepatoblastoma TGLs = 1-6+12] | | |
| | [Hepatocellular Adenoma TGLs = 2-5] | | |
| * Lung | | Hepatoblastoma | Metastatic (Liver) |
| * Lymph Node, Bronchial | | Hyperplasia | Lymphoid, Minimal |
| | Plasma Cell | Hyperplasia | Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Angiectasis | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Stomach, Glandular | | Mineralization | Minimal |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 421

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60791

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Degeneration

Minimal

* Trachea

Cartilage

Metaplasia

Osseous, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 422

TRT#: 5

SEX: Male

DAY ON TEST: 697

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60792

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

MISSING

* Gallbladder	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Inflammation	Chronic Active, Mild
		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Fibrosis	Mild
	Hepatocyte	Hepatocellular Carcinoma	
		Necrosis	Minimal
	[Fibrosis TGLs = 6-15]		
	[Hepatocellular Carcinoma TGLs = 4-14]		
* Lung		Hemorrhage	Minimal
	[Hemorrhage TGLs = 3-13]		
* Lymph Node, Mesenteric		Angiectasis	Minimal
		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 422

TRT#: 5

SEX: Male

DAY ON TEST: 697

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60792

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal
* Seminal Vesicle		Inflammation	Mild
* Skin		Inflammation	Chronic Active, Marked
		Ulcer	Marked
	[Inflammation TGLs = 1-12]		
	[Ulcer TGLs = 1-12]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes		Degeneration	Minimal
* Thymus		Atrophy	Mild
Tooth		Inflammation	Suppurative, Moderate
* Urinary Bladder		Inflammation	Chronic Active, Marked
	[Inflammation TGLs = 2-9]		

PRIMARY CAUSE OF DEATH - Urinary Bladder Inflammation

CONTRIBUTORY CAUSE OF DEATH - Skin Inflammation

Animal Note: TGL 5 = NCL (No Corresponding Lesion)

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 423

TRT#: 5

SEX: Male

DAY ON TEST: 344

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60793

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mediastinal	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Gallbladder	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland			

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Jejunum
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OBSERVATIONS

* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 1-6+12]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
		Thrombosis	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 424

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60794

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation Chronic, Mild

[Alveolar/Bronchiolar Carcinoma TGLs = 3-4]
 Lymph Node Lumbar
 [Hyperplasia TGLs = 5-6]

Hyperplasia Lymphoid, Mild

* Lymph Node, Bronchial
 * Lymph Node, Mesenteric
 * Nose

Alveolar/Bronchiolar Carcinoma Metastatic (Lung)
 Hyperplasia Plasma Cell, Mild

Olfactory Epi Mild
 Respirat Epith Mild
 Respirat Epith Mild

Inflammation Chronic Active, Minimal

* Stomach, Glandular

Inflammation Chronic Active, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 425

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60795

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Eosinophilic Focus	
		Hepatoblastoma	
		Mixed Cell Focus	
		Tension Lipidosis	Minimal
	[Hepatoblastoma TGLs = 2-6]		
	[Mixed Cell Focus TGLs = 1-5]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
	[Alveolar/Bronchiolar Carcinoma TGLs = 3-4]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 425

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60795

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
	Lateral Wall	Inflammation	Chronic Active, Marked
		Inflammation	Chronic Active, Mild
* Prostate		Hyperplasia	Minimal
* Thymus		Cyst	
Tooth		Dysplasia	Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 426

TRT#: 5

SEX: Male

DAY ON TEST: 697

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Liver | * Lymph Node, Bronchial | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|----------------|-------------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Minimal |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Minimal |
| * Epididymis | | Exfoliated Germ Cell | |
| * Kidney | | Nephropathy | Mild |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Moderate |
| * Lung | Alv/Bron Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | | Exudate | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Respirat Epith | Necrosis | Minimal |
| | Nasopharyn Dct | Perforation | |
| * Preputial Gland | | Ectasia | Minimal |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 426

TRT#: 5

SEX: Male

DAY ON TEST: 697

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60796

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Inflammation	Chronic Active, Moderate
	Ulcer	Moderate
[Inflammation TGLs = 1-12]		
[Ulcer TGLs = 1-12]		
* Spleen	Hematopoietic Cell Proliferation	Mild
* Testes	Degeneration	Mild
* Thymus	Atrophy	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 427

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60797

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Hyperplasia	Lymphoid, Marked
	[Hyperplasia TGLs = 6-15]		
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 3,4-12+13]	Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLs = 5-14]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alv/Bron Epith	Hyperplasia	Minimal
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Minimal
		Proteinosis	Mild
	[Alveolar/Bronchiolar Carcinoma TGLs = 1-4]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 427

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60797

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLs = 2-6]	Fat	Necrosis	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes		Degeneration	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 428

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
	[Hepatocellular Adenoma TGLs = 1,2,3-5+6+12]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Minimal
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
	[Alveolar/Bronchiolar Adenoma TGLs = 5-4]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 428

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60798

ORGAN AND ACCOUNTABLE SITE STATUS

	[Alveolar/Bronchiolar Carcinoma	TGLs = 4-4]		
* Nose	Olfactory Epi		Accumulation, Hyaline Droplet	Mild
	Respirat Epith		Accumulation, Hyaline Droplet	Mild
	Turbinate		Atrophy	Minimal
			Exudate	Minimal
	Respirat Epith		Hyperplasia	Mild
	Lateral Wall		Inflammation	Chronic Active, Moderate
			Inflammation	Chronic Active, Minimal
* Stomach, Glandular			Mineralization	Minimal
* Testes			Degeneration	Minimal
* Thymus			Cyst	Minimal
			Ectopic Parathyroid Gland	Minimal
Tooth			Dysplasia	Mild

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 429

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|-------------------|---------------------------------------|-------------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Minimal |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Minimal |
| * Epididymis | | Exfoliated Germ Cell | |
| * Kidney | | Nephropathy | Mild |
| * Larynx | | Inflammation | Chronic Active, Mild |
| | Epiglottis | Metaplasia | Squamous, Moderate |
| * Liver | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | |
| | [Hepatocellular Adenoma TGLs = 2-5] | | |
| * Lung | Alv/Bron Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | | Exudate | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Preputial Gland | | Inflammation | Chronic Active, Mild |
| * Spleen | | Hyperplasia | Lymphoid, Minimal |
| * Testes | | Degeneration | Minimal |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 429

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60799

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Cyst

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 430

TRT#: 5

SEX: Male

DAY ON TEST: 640

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
		Schwannoma Malignant	Metastatic (Peripheral Nerve)
* Epididymis		Exfoliated Germ Cell	
* Kidney		Metaplasia	Osseous, Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Eosinophilic Focus	
	[Eosinophilic Focus TGLs = 3-5]		
* Lung		Schwannoma Malignant	Metastatic (Peripheral Nerve)
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Peripheral Nerve		Schwannoma Malignant	
Skeletal Muscle		Schwannoma Malignant	Metastatic (Peripheral Nerve)
	[Schwannoma Malignant TGLs = 1-12]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 430

TRT#: 5

SEX: Male

DAY ON TEST: 640

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60800

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Thymus

Atrophy

Minimal

PRIMARY CAUSE OF DEATH

- Peripheral Nerve Schwannoma Malignant

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 431

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Harderian Gland		Adenoma	
* Kidney		Infarct	Chronic, Minimal
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Basophilic Focus	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 431

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60801

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland

Inflammation

Chronic Active, Minimal

* Thymus

Cyst

Ectopic Parathyroid Gland

Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 432

TRT#: 5

SEX: Male

DAY ON TEST: 612

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60802

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Minimal
	[Hyperplasia TGLs = 3-9]		
* Testes		Degeneration	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocholangiocarcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 433

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Marked
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Carcinoma	Multiple
		Sarcoma	Metastatic (Mesentery)
	[Hepatocellular Carcinoma TGLs = 9,10-5+19]		
	[Sarcoma TGLs = 10-5]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Moderate
		Pigmentation	Mild
	[Hepatocellular Carcinoma TGLs = 1,2,3,5,6,7,8-4+12+13+15+16+17+18]		
Lymph Node	Renal	Sarcoma	Metastatic (Mesentery)
	Pancreatic	Sarcoma	Metastatic (Mesentery)

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 433

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60803

ORGAN AND ACCOUNTABLE SITE STATUS

[Sarcoma	TGLs = 11,13-20+22]		
[Sarcoma	TGLs = 14-23]		
* Lymph Node, Mesenteric		Sarcoma	Metastatic (Mesentery)
Mesentery		Sarcoma	
[Sarcoma	TGLs = 15-24]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
Skeletal Muscle		Sarcoma	Metastatic (Mesentery)
[Sarcoma	TGLs = 12-21]		
* Skin		Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular		Sarcoma	Metastatic (Mesentery)
* Testes		Degeneration	Minimal
* Thymus		Atrophy	Minimal

Animal Note: TGL 4 = NCL (No Corresponding Lesion)

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 434

TRT#: 5

SEX: Male

DAY ON TEST: 711

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLs = 8-5]		
	[Hepatocellular Carcinoma TGLs = 7-15]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Hepatocellular Carcinoma	Metastatic (Liver)
	Alv/Bron Epith	Hyperplasia	Mild
	[Alveolar/Bronchiolar Carcinoma TGLs = 2,3,5,6-6+12+13+14]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 434

TRT#: 5

SEX: Male

DAY ON TEST: 711

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60804

ORGAN AND ACCOUNTABLE SITE STATUS

[Hepatocellular Carcinoma TGLs = 2,4-6+12]

[Hyperplasia TGLs = 6-14]

* Lymph Node, Bronchial		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Lymph Node, Mediastinal		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
	Nasolacrim Dct	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 435

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60805

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Eye		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLs = 3,4-5+6]		
	[Hepatocellular Carcinoma TGLs = 1-13]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Turbinat	Atrophy	Minimal
		Exudate	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 435

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60805

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Lateral Wall	Inflammation	Chronic Active, Marked
Tooth		Dysplasia	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 436

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mesenteric

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Eosinophilic Focus	
* Lung	Alv/Bron Epith	Hyperplasia	Minimal
Mesentery		Hemangiosarcoma	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Skin		Inflammation	Chronic Active, Mild
Tooth		Dysplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 437

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Kidney	Artery	Inflammation	Chronic Active, Mild
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma	TGLs = 1,2,3,4,5-5+12+13+14]		
* Lung	Bronchiole, Epithelium	Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 437

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60807

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Nasopharyn Dct	Perforation	Chronic Active, Minimal
* Testes		Inflammation	Minimal
		Degeneration	

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 438

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 1-6]		
* Lung	Alv/Bron Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 439

TRT#: 5

SEX: Male

DAY ON TEST: 533

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Heart		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
	[Alveolar/Bronchiolar Adenoma	TGLs = 2-6]	
	[Alveolar/Bronchiolar Carcinoma	TGLs = 1-4]	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 439

TRT#: 5

SEX: Male

DAY ON TEST: 533

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60809

ORGAN AND ACCOUNTABLE SITE STATUS

Respirat Epith

Hyperplasia

Mild

Inflammation

Chronic Active, Minimal

Olfactory Epi

Metaplasia

Respiratory, Minimal

* Stomach, Forestomach

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Heart Alveolar/Bronchiolar Carcinoma Lung

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 440

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60810

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 6-7]			
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	Nasopharyn Dct	Perforation	

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 441

TRT#: 5

SEX: Male

DAY ON TEST: 72

DOSE: 30 mg/m3

DISP: Accidentally Killed

HISTO: 60811

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Heart	* Kidney
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	

INSUFFICIENT TISSUE

* Larynx	* Lymph Node, Mediastinal
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OBSERVATIONS

* Harderian Gland		Hyperplasia	Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 442

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Preputial Gland	* Thyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[Eosinophilic Focus TGLs = 1-12]		
	[Hepatocellular Adenoma TGLs = 2-13]		
	[Hepatocellular Carcinoma TGLs = 3-6]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Thymus		Ectopic Parathyroid Gland	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 443

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Pancreas	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hemangiosarcoma	Multiple
		Hepatocellular Adenoma	Multiple
	Hepatocyte	Necrosis	Moderate
	[Clear Cell Focus TGLs = 4-13]		
	[Eosinophilic Focus TGLs = 4,5-13+15]		
	[Hemangiosarcoma TGLs = 6,7-5+14]		
	[Hepatocellular Adenoma TGLs = 2,3,1-5+6+12]		
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 443

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60813

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Angiectasis	Mild
		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 444

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60814

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Pancreas
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Eye		Inflammation	Chronic Active, Moderate
	[Inflammation TGLs = 1-11]		
* Harderian Gland		Carcinoma	
	[Carcinoma TGLs = 2-11]		
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Hepatocellular Adenoma	
	Hepatocyte	Inflammation	Chronic Active, Minimal
	[Hepatocellular Adenoma TGLs = 3-6]	Necrosis	Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 444

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60814

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Exudate	Mild
		Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Hyperplasia	Minimal
* Skin	Hair Follicle	Atrophy	Mild
		Fibrosis	Mild
		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLs = 4-5]		
* Stomach, Forestomach		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLs = 5-9]		
* Testes		Degeneration	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 445

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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INSUFFICIENT TISSUE

* Trachea

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Eye		Inflammation	Chronic Active, Marked
		Necrosis	Mild
	[Inflammation TGLs = 1-11]		
* Harderian Gland		Carcinoma	
	[Carcinoma TGLs = 2-11]		
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Hepatocyte	Necrosis	Mild
	[Hepatocellular Adenoma TGLs = 3,4-5+13]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 445

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60815

ORGAN AND ACCOUNTABLE SITE STATUS

[Hepatocellular Carcinoma	TGLs = 5-6]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 446

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Pancreas
- * Seminal Vesicle
- * Stomach, Glandular
- * Trachea
- Blood Vessel
- * Eye
- * Intestine Large, Colon
- * Lymph Node, Bronchial
- * Pituitary Gland
- * Skin
- * Testes
- * Urinary Bladder
- * Bone
- * Gallbladder
- * Intestine Large, Rectum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Spleen
- * Thymus
- * Bone Marrow
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Stomach, Forestomach
- * Thyroid Gland

MISSING

- * Lymph Node, Mediastinal
- * Mammary Gland
- * Parathyroid Gland

OBSERVATIONS

- * Adrenal Cortex
- * Brain
- * Epididymis
- * Heart
- * Intestine Small, Ileum
- * Islets, Pancreatic
- * Kidney
- * Larynx
- * Liver
- * Lung
- * Nose
- Hypertrophy
- Inflammation
- Exfoliated Germ Cell
- Cardiomyopathy
- Hyperplasia
- Hypertrophy
- Nephropathy
- Inflammation
- Metaplasia
- Mixed Cell Focus
- Epiglottis
- Alv/Bron Epith
- Olfactory Epi
- Respirat Epith
- Respirat Epith
- Respirat Epith
- Hyperplasia
- Inflammation
- Accumulation, Hyaline Droplet
- Accumulation, Hyaline Droplet
- Atrophy
- Exudate
- Hyperplasia
- Inflammation
- Minimal
- Chronic Active, Minimal
- Mild
- Lymphoid, Minimal
- Minimal
- Mild
- Chronic Active, Minimal
- Squamous, Mild
- Minimal
- Chronic, Minimal
- Minimal
- Mild
- Minimal
- Moderate
- Minimal
- Chronic Active, Minimal

[Mixed Cell Focus TGLs = 2-13]

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 446

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60816

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate

Nasopharyn Dct

Perforation

Hyperplasia

Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 447

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
	[Basophilic Focus TGLs = 2-12]		
	[Hepatocellular Adenoma TGLs = 1-5]		
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Minimal
	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 447

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60817

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Atrophy	Minimal
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Nasopharyn Dct	Perforation	
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Minimal
Tooth		Dysplasia	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 448

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60818

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 1,2-5]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 449

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Harderian Gland
- * Heart
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Islets, Pancreatic
- * Lung
- * Pituitary Gland
- * Preputial Gland
- * Seminal Vesicle
- * Skin
- * Testes
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Pancreas
- * Prostate
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Glandular

MISSING

- * Gallbladder
- * Lymph Node, Bronchial
- * Lymph Node, Mandibular
- * Mammary Gland

INSUFFICIENT TISSUE

- * Lymph Node, Mediastinal
- * Thyroid Gland

OBSERVATIONS

- * Epididymis
- * Kidney
- * Larynx
- * Liver
- * Lymph Node, Mesenteric
- * Nose
- Epiglottis
- [Hepatocellular Carcinoma TGLs = 1-5+12]
- [Lymphoma Malignant TGLs = 2-13]
- Olfactory Epi
- Respirat Epith
- Respirat Epith
- Turbinate
- Respirat Epith
- Nasopharyn Dct
- Exfoliated Germ Cell
- Nephropathy
- Inflammation
- Metaplasia
- Hepatocellular Carcinoma
- Lymphoma Malignant
- Accumulation, Hyaline Droplet
- Accumulation, Hyaline Droplet
- Atrophy
- Atrophy
- Exudate
- Hyperplasia
- Inflammation
- Perforation
- Mild
- Chronic Active, Minimal
- Squamous, Moderate
- Mild
- Mild
- Minimal
- Minimal
- Mild
- Minimal
- Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 449

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60819

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Lymphoma Malignant

* Thymus

Lymphoma Malignant

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 450

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Bronchial	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Eosinophilic Focus	
	[Eosinophilic Focus TGLs = 2-5]		
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Skin		Metaplasia	Osseous, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 601

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60671

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Urinary Bladder

MISSING

* Gallbladder	* Lymph Node, Bronchial	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
	Epiglottis	Inflammation	Chronic Active, Minimal
* Liver		Metaplasia	Squamous, Marked
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLs = 3,4,5,6,7-5+6+14+15+16]		
	[Hepatocellular Carcinoma TGLs = 8-17]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 601

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60671

ORGAN AND ACCOUNTABLE SITE STATUS

	[Alveolar/Bronchiolar Carcinoma	TGLs = 1,2-12+13]	Inflammation	Chronic, Mild
* Nose	Olfactory Epi		Accumulation, Hyaline Droplet	Mild
	Respirat Epith		Accumulation, Hyaline Droplet	Mild
	Respirat Epith		Atrophy	Minimal
			Exudate	Moderate
	Respirat Epith		Hyperplasia	Mild
			Inflammation	Chronic Active, Mild
	Respirat Epith		Necrosis	Minimal
* Trachea	Cartilage		Metaplasia	Osseous, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 602

TRT#: 7

SEX: Male

DAY ON TEST: 537

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60672

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Hepatocyte	Hypertrophy	Mild
	Hepatocyte	Necrosis	Mild
	[Hepatocellular Adenoma TGLs = 7-15]		
	[Hepatocellular Carcinoma TGLs = 2,3,4,5,6-5+12+13+14]		
	[Necrosis TGLs = 8-16]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Bronchial		Infiltration Cellular	Plasma Cell, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 602

TRT#: 7

SEX: Male

DAY ON TEST: 537

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60672

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
		Inflammation	Chronic Active, Minimal
* Skin		Cyst Epithelial Inclusion	
	[Cyst Epithelial Inclusion TGLs = 1-16]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes		Degeneration	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 603

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60673

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 1,2-5+6]		
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 603

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60673

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Inflammation

Chronic Active, Mild

Hyperplasia

Lymphoid, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 604

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60674

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
	Subcapsular	Adenoma	
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
	Epiglottis	Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Marked
* Liver		Fibrous Histiocytoma	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Vacuolization Cytoplasmic	Minimal
	[Hepatocellular Adenoma TGLs = 2,3,4,6-13+14+16+17]		
	[Hepatocellular Carcinoma TGLs = 1,5-5+15]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 604

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60674

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Chronic, Mild
[Alveolar/Bronchiolar Adenoma	TGLs = 7-12]		
Lymph Node	Renal	Fibrous Histiocytoma	
[Fibrous Histiocytoma	TGLs = 8-18]		
* Lymph Node, Mesenteric		Fibrous Histiocytoma	
[Fibrous Histiocytoma	TGLs = 9-19]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Turbinate	Perforation	
* Pancreas		Fibrous Histiocytoma	
* Testes		Degeneration	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 605

TRT#: 7

SEX: Male

DAY ON TEST: 424

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60675

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Urinary Bladder	

MISSING

* Gallbladder	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland			

AUTO PRECLUDES DIAG.

* Eye	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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INSUFFICIENT TISSUE

* Intestine Large, Rectum	* Lymph Node, Mediastinal
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OBSERVATIONS

* Harderian Gland		Hyperplasia	Minimal
[Hyperplasia TGLs = 5-11]			
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Carcinoma	Multiple
[Hepatocellular Carcinoma TGLs = 2,3-5+13]			
* Lung		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
[Inflammation TGLs = 1-12]			

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 605

TRT#: 7

SEX: Male

DAY ON TEST: 424

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60675

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Trachea	Epithelium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 606

TRT#: 7

SEX: Male

DAY ON TEST: 714

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60676

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Kidney		Cyst	Minimal
		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLs = 4-6]		
	[Hepatocellular Carcinoma TGLs = 3-12]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Mild
	Alv/Bron Epith	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 606

TRT#: 7

SEX: Male

DAY ON TEST: 714

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60676

ORGAN AND ACCOUNTABLE SITE STATUS

	Infiltration Cellular	Histiocyte, Mild
	Inflammation	Chronic, Moderate
	Pigmentation	Mild
* Nose	[Alveolar/Bronchiolar Carcinoma TGLs = 1-4]	
	Olfactory Epi	Mild
	Respirat Epith	Mild
	Respirat Epith	Minimal
	Turbinate	Minimal
		Exudate
	Respirat Epith	Marked
		Hyperplasia
		Inflammation
	Respirat Epith	Chronic Active, Mild
	Nasopharyn Dct	Minimal
	Turbinate	
* Preputial Gland		
	[Ectasia TGLs = 2-8]	
* Spleen		
* Trachea	Epithelium	Minimal
		Hyperplasia

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 607

TRT#: 7

SEX: Male

DAY ON TEST: 548

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60677

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

INSUFFICIENT TISSUE

* Gallbladder

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Moderate
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Carcinoma	Multiple
		Inflammation	Chronic Active, Minimal
	[Hepatocellular Carcinoma TGLs = 2,3-5+12]		
	[Inflammation TGLs = 1-6]		
* Lung		Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Mild
	Alv/Bron Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 607

TRT#: 7

SEX: Male

DAY ON TEST: 548

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60677

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Inflammation	Chronic, Moderate
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Respirat Epith	Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
* Thymus	Respirat Epith	Inflammation	Chronic Active, Mild
		Necrosis	Minimal
		Atrophy	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 608

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60678

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Bronchial |
| * Lymph Node, Mandibular | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Testes | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---------------------------|--|--------------------------|-------------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Minimal |
| * Epididymis | | Exfoliated Germ Cell | |
| * Gallbladder | Epithelium | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Larynx | Epiglottis | Hyperplasia | Squamous, Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Marked |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | [Hepatocellular Adenoma TGLs = 2,3-5] | | |
| | [Hepatocellular Carcinoma TGLs = 4-12] | | |
| * Lung | | Fibrosis | Minimal |
| | | Hepatocellular Carcinoma | Metastatic (Liver) |
| | Alv/Bron Epith | Hyperplasia | Mild |
| | Alveolar Epith | Hyperplasia | Mild |
| | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Chronic, Mild |
| * Lymph Node, Mediastinal | | Hyperplasia | Lymphoid, Minimal |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 608

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60678

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Nasopharyn Dct	Perforation	
	Turbinat	Perforation	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thymus		Hyperplasia	Lymphoid, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 609

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60679

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland
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INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	[Hepatocellular Adenoma TGLs = 1,3,4-5+13+15]		
	[Hepatocellular Carcinoma TGLs = 2,5-14]		
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 609

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60679

ORGAN AND ACCOUNTABLE SITE STATUS

Respirat Epith

Atrophy

Minimal

Exudate

Mild

Respirat Epith

Hyperplasia

Mild

Inflammation

Chronic Active, Minimal

Hematopoietic Cell Proliferation

Mild

* Spleen

Animal Note: TGL 6 = NCL (No Corresponding Lesion)

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 610

TRT#: 7

SEX: Male

DAY ON TEST: 711

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60680

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Prostate
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Gallbladder
- * Intestine Large, Rectum
- * Islets, Pancreatic
- Peripheral Nerve
- * Salivary Glands
- * Stomach, Glandular
- * Bone
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mediastinal
- * Pituitary Gland
- * Seminal Vesicle
- * Thyroid Gland
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Pancreas
- * Preputial Gland
- Spinal Cord
- * Trachea

MISSING

- * Lymph Node, Mandibular
- * Mammary Gland

OBSERVATIONS

- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Epididymis
- * Heart
- * Kidney
- * Larynx
- * Liver
- * Lung
- Myeloid Cell
- Epiglottis
- Epiglottis
- [Hepatocellular Adenoma TGLs = 7,11,12,13-5+6+15+17]
- [Hepatocellular Carcinoma TGLs = 6,8,9,10-5+12+13+14+16]
- Alv/Bron Epith
- Alveolar Epith
- Hyperplasia
- Hyperplasia
- Gliosis
- Exfoliated Germ Cell
- Cardiomyopathy
- Inflammation
- Inflammation
- Nephropathy
- Hyperplasia
- Inflammation
- Metaplasia
- Hepatocellular Adenoma
- Hepatocellular Carcinoma
- Fibrosis
- Hepatocellular Carcinoma
- Hyperplasia
- Hyperplasia
- Mild
- Minimal
- Mild
- Mild
- Chronic Active, Mild
- Chronic Active, Mild
- Mild
- Squamous, Minimal
- Chronic Active, Minimal
- Squamous, Marked
- Multiple
- Multiple
- Minimal
- Metastatic (Liver)
- Mild
- Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 610

TRT#: 7

SEX: Male

DAY ON TEST: 711

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60680

ORGAN AND ACCOUNTABLE SITE STATUS

		Infiltration Cellular Inflammation	Histiocyte, Mild Chronic, Mild
[Hepatocellular Carcinoma	TGLs = 1,2,3,4,5-4]		
[Inflammation	TGLs = 1-4]		
* Lymph Node, Bronchial		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Skin		Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes		Degeneration	Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 611

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60681

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Harderian Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		Necrosis	Moderate
	[Hepatocellular Adenoma TGLs = 9-12]		
	[Hepatocellular Carcinoma TGLs = 5,10,11-5+13+15]		
	[Necrosis TGLs = 6,7,8-5+6+14]		
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Minimal
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
		Metaplasia	Osseous, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 611

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60681

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Marked
	Respirat Epith	Hyperplasia	Mild
	Lateral Wall	Inflammation	Chronic Active, Moderate
		Inflammation	Chronic Active, Minimal
	Nasopharyn Dct	Perforation	
* Pituitary Gland	Pars Distalis	Cyst	
* Preputial Gland		Inflammation	Chronic Active, Moderate
	[Inflammation TGLs = 2,3-8]		
* Skin		Inflammation	Chronic Active, Moderate
	[Inflammation TGLs = 1-8]	Ulcer	Mild
	[Ulcer TGLs = 1-8]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes		Degeneration	Minimal
Tooth		Inflammation	Suppurative, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 612

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60682

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Eye		Carcinoma	Metastatic (Harderian Gland)
		Inflammation	Chronic Active, Marked
* Harderian Gland		Carcinoma	
[Carcinoma TGLs = 7-11]			
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
[Hepatocellular Adenoma TGLs = 4,6-14+15]			
[Hepatocellular Carcinoma TGLs = 5-5]			
* Lung		Carcinoma	Metastatic (Harderian Gland)
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
[Carcinoma TGLs = 2,8-4+13]			

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 612

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60682

ORGAN AND ACCOUNTABLE SITE STATUS

	[Inflammation TGLs = 3,8-12+13]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Carcinoma	Metastatic (Harderian Gland)
		Exudate	Marked
	Respirat Epith	Hyperplasia	Mild
	Nasolacrim Dct	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Ectasia	Minimal
	[Ectasia TGLs = 1-8]		
* Stomach, Forestomach		Squamous Cell Papilloma	

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 613

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
	Epiglottis	Inflammation	Chronic Active, Minimal
* Liver		Metaplasia	Squamous, Marked
		Clear Cell Focus	
		Hepatocellular Adenoma	
		Mixed Cell Focus	
	[Hepatocellular Adenoma TGLs = 1-5]		
	[Mixed Cell Focus TGLs = 2-5]		
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 613

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60683

ORGAN AND ACCOUNTABLE SITE STATUS

Respirat Epith

Accumulation, Hyaline Droplet

Mild

Respirat Epith

Atrophy

Minimal

Exudate

Mild

Respirat Epith

Hyperplasia

Mild

Inflammation

Chronic Active, Minimal

Degeneration

Minimal

Hyperplasia

Lymphoid, Moderate

* Testes

* Thymus

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 614

TRT#: 7

SEX: Male

DAY ON TEST: 645

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60684

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 3,4-5+6]		
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Mild
		Exudate	Marked
	Respirat Epith	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 614

TRT#: 7

SEX: Male

DAY ON TEST: 645

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60684

ORGAN AND ACCOUNTABLE SITE STATUS

Peripheral Nerve	Inflammation	Chronic Active, Mild
Skeletal Muscle	Degeneration	Minimal
* Skin	Degeneration	Minimal
	Hyperplasia	Mild
	Inflammation	Chronic Active, Moderate
	Ulcer	Moderate
[Inflammation TGLs = 1,5-13+14]		
[Ulcer TGLs = 1,5-13+14]		
* Thymus	Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 615

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Pancreas
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Hyperplasia	Lymphoid, Mild
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
* Kidney		Hydronephrosis	Minimal
		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate

[Alveolar/Bronchiolar Carcinoma TGLs = 1,2-4]

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 615

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60685

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial [Hyperplasia TGLs = 3-12]		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Prostate		Infiltration Cellular	Lymphoid, Mild
* Spleen		Hyperplasia	Lymphoid, Minimal
* Thymus		Hyperplasia	Lymphoid, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 616

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60686

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Eye		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
	Epiglottis	Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Marked
* Liver		Hepatocellular Carcinoma	Multiple
	[Hepatocellular Carcinoma TGLs = 1,2-5+12]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
* Lymph Node, Mesenteric		Hemangiosarcoma	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 616

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60686

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Lateral Wall	Inflammation	Chronic Active, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Nasopharyn Dct	Perforation	
	Turbinate	Perforation	
* Pituitary Gland	Pars Distalis	Cyst	
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 617

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Medulla		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
	Epiglottis	Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[Clear Cell Focus TGLs = 4-6]		
	[Eosinophilic Focus TGLs = 1-5]		
	[Hepatocellular Adenoma TGLs = 2-12]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 617

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60687

ORGAN AND ACCOUNTABLE SITE STATUS

	[Alveolar/Bronchiolar Carcinoma TGLs = 3-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
	Turbinate	Perforation	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Stomach, Glandular		Inflammation	Chronic Active, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 618

TRT#: 7

SEX: Male

DAY ON TEST: 571

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60688

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Chronic, Minimal
	[Alveolar/Bronchiolar Adenoma TGLs = 11-6]		
	[Alveolar/Bronchiolar Carcinoma TGLs = 7-14]		
	[Hepatoblastoma TGLs = 7,8,9,10-12+13+14]		
* Lymph Node, Bronchial		Hepatoblastoma	Metastatic (Liver)
* Lymph Node, Mediastinal		Hepatoblastoma	Metastatic (Liver)
* Lymph Node, Mesenteric		Hepatoblastoma	Metastatic (Liver)
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
* Stomach, Forestomach		Cyst	Squamous
		Inflammation	Chronic Active, Mild
	[Inflammation TGLs = 12-16]		
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Liver Thrombosis
 CONTRIBUTORY CAUSE OF DEATH - Liver Hepatoblastoma
 - Liver Hepatocellular Adenoma

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 619

TRT#: 7

SEX: Male

DAY ON TEST: 667

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|---------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---------------|--|--------------------------------|-------------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| * Epididymis | | Exfoliated Germ Cell | |
| * Kidney | | Nephropathy | Mild |
| * Larynx | Epiglottis | Hyperplasia | Squamous, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Marked |
| * Liver | | Basophilic Focus | |
| | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | Multiple |
| | | | |
| | [Basophilic Focus TGLs = 11-14] | | |
| | [Hepatocellular Adenoma TGLs = 12-17] | | |
| | [Hepatocellular Carcinoma TGLs = 9,10-6+15] | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| | | Hepatocellular Carcinoma | Metastatic (Liver) |
| | Alv/Bron Epith | Hyperplasia | Mild |
| | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Chronic, Moderate |
| | | Pigmentation | Minimal |
| | | | |
| | [Hepatocellular Carcinoma TGLs = 3,4,5,6,7,8-4+12+13+16] | | |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 619

TRT#: 7

SEX: Male

DAY ON TEST: 667

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60689

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Turbinate	Perforation	
* Pituitary Gland	Pars Distalis	Cyst	
* Preputial Gland		Inflammation	Chronic Active, Marked
* Skin		Hyperkeratosis	Mild
		Hyperplasia	Mild
		Inflammation	Chronic Active, Marked
Note: Skin inflammation, chronic active, incorporates one preputial gland. [Inflammation TGLs = 1-8]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	[Hyperplasia TGLs = 13-18]		
	[Inflammation TGLs = 13-18]		

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma
 CONTRIBUTORY CAUSE OF DEATH - Lung Hepatocellular Carcinoma Liver

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 620

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Moderate
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Eye		Cataract	Marked
		Inflammation	Chronic Active, Mild
	[Cataract TGLs = 1-11]		
* Harderian Gland		Adenoma	
	[Adenoma TGLs = 7-11]		
* Heart		Cardiomyopathy	Mild
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Clear Cell Focus	
		Hepatoblastoma	
		Hepatocellular Adenoma	Multiple
	[Clear Cell Focus TGLs = 3-12]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 620

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60690

ORGAN AND ACCOUNTABLE SITE STATUS

	[Hepatoblastoma TGLs = 8-5]		
	[Hepatocellular Adenoma TGLs = 4,5-5+6]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
		Pigmentation	Minimal
	[Alveolar/Bronchiolar Carcinoma TGLs = 6-4]		
* Lymph Node, Bronchial		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
	Nasolacrim Dct	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Turbinate	Perforation	
	Nasopharyn Dct	Perforation	
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
* Testes		Degeneration	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 621

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60691

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Epididymis		Exfoliated Germ Cell	
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Moderate
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
	Bronchiole	Metaplasia	Squamous, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 622

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60692

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|------------------|--|--------------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Minimal |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Minimal |
| * Epididymis | | Exfoliated Germ Cell | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Inflammation | Chronic Active, Mild |
| | | Nephropathy | Mild |
| * Larynx | Epiglottis | Hyperplasia | Squamous, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Marked |
| * Liver | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | Multiple |
| | [Hepatocellular Adenoma TGLs = 3-15] | | |
| | [Hepatocellular Carcinoma TGLs = 2,4-5+14] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Alveolar/Bronchiolar Carcinoma | |
| | | Fibrosis | Minimal |
| | | Hepatocellular Carcinoma | Metastatic (Liver) |
| | Alv/Bron Epith | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 622

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60692

ORGAN AND ACCOUNTABLE SITE STATUS

	Alveolar Epith	Hyperplasia Infiltration Cellular Inflammation Pigmentation	Minimal Histiocyte, Mild Chronic, Mild Minimal
	[Alveolar/Bronchiolar Adenoma TGLs = 5-13]		
	[Alveolar/Bronchiolar Carcinoma TGLs = 1-12]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Turbinat	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
	Turbinat	Perforation	

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 623

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
	Epiglottis	Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
* Liver		Eosinophilic Focus	
	[Eosinophilic Focus TGLs = 2,4-5]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic, Moderate
	[Alveolar/Bronchiolar Carcinoma TGLs = 5,6-4+12]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLs = 1-3]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 623

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60693

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Thymus		Cyst	

Animal Note: TGL 3 = Autolysis of Mass precludes examination

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 624

TRT#: 7

SEX: Male

DAY ON TEST: 708

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|--------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Islets, Pancreatic | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thyroid Gland | * Urinary Bladder | | |

MISSING

- * Mammary Gland

AUTO PRECLUDES DIAG.

- * Intestine Small, Ileum
- * Intestine Small, Jejunum

OBSERVATIONS

- | | | | |
|---------------|--|--------------------------------|-------------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| * Brain | | Inflammation | Chronic Active, Minimal |
| * Epididymis | | Exfoliated Germ Cell | |
| * Kidney | | Nephropathy | Moderate |
| * Larynx | Epiglottis | Hyperplasia | Squamous, Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Marked |
| * Liver | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | [Eosinophilic Focus TGLs = 3-13] | | |
| | [Hepatocellular Adenoma TGLs = 4-6] | | |
| | [Hepatocellular Carcinoma TGLs = 5-12] | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | Multiple |
| | | Fibrosis | Minimal |
| | Alveolar Epith | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 624

TRT#: 7

SEX: Male

DAY ON TEST: 708

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60694

ORGAN AND ACCOUNTABLE SITE STATUS

	Alv/Bron Epith		Hyperplasia Infiltration Cellular Inflammation	Minimal Histiocyte, Moderate Chronic, Mild
* Nose	[Alveolar/Bronchiolar Carcinoma TGLs = 1,2-4]			
	Olfactory Epi		Accumulation, Hyaline Droplet	Mild
	Respirat Epith		Accumulation, Hyaline Droplet	Mild
	Respirat Epith		Atrophy	Mild
	Turbinate		Atrophy	Minimal
			Exudate	Moderate
	Glands, Olfactory Epi		Hyperplasia	Mild
	Respirat Epith		Hyperplasia Inflammation	Mild Chronic Active, Mild
	Olfactory Epi		Metaplasia	Respiratory, Mild
	Respirat Epith		Necrosis	Minimal
	Turbinate		Perforation	
* Preputial Gland			Inflammation	Chronic Active, Moderate
	[Inflammation TGLs = 6-8]			
* Skin			Inflammation	Chronic Active, Minimal
* Thymus			Atrophy	Mild
* Trachea	Epithelium		Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 625

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60695

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
		Hypertrophy	Minimal
* Adrenal Medulla		Angiectasis	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Clear Cell Focus	
	Hepatocyte	Necrosis	Minimal
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 625

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60695

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Pigmentation	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Mild
	Olfactory Epi	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Lateral Wall	Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
* Pancreas		Cyst	
* Thymus		Atrophy	Minimal
		Cyst	
		Ectopic Thyroid	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 626

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Pancreas	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
		Angiectasis	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
* Liver	Hepatocyte	Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 1,2,3-5+6+12]	Necrosis	Mild
* Lung	Alv/Bron Epith	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
		Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 626

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60696

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Atrophy	Mild
	Turbinate	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
	Lateral Wall	Inflammation	Chronic Active, Moderate
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
	Turbinate	Perforation	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Tooth		Dysplasia	Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 627

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Gallbladder		Inflammation	Chronic Active, Minimal
* Kidney		Metaplasia	Osseous, Mild
		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 2,3,4-5+13]		
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
	[Alveolar/Bronchiolar Adenoma TGLs = 6,7-4+12]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 627

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60697

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Seminal Vesicle		Dilatation	Mild
	[Dilatation TGLs = 5-9]		
* Skin		Fibrous Histiocytoma	
		Inflammation	Chronic Active, Minimal
	[Fibrous Histiocytoma TGLs = 1-14]		
* Thymus		Cyst	
Tooth		Inflammation	Suppurative, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 628

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60698

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
	[Basophilic Focus TGLs = 2-5]		
	[Hepatocellular Adenoma TGLs = 3-6]		
* Lung		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 628

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60698

ORGAN AND ACCOUNTABLE SITE STATUS

	Lateral Wall	Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Skin		Inflammation	Chronic Active, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 629

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60699

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	[Hepatocellular Adenoma TGLs = 5-5]		
	[Hepatocellular Carcinoma TGLs = 3,4-12+13]		
* Lung		Fibrosis	Mild
		Hepatocellular Carcinoma	Metastatic (Liver)
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Infiltration Cellular	Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 629

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60699

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Respirat Epith	Atrophy	Minimal
	Turbinat	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
* Pituitary Gland	Pars Distalis	Cyst	
* Skin		Cyst Epithelial Inclusion	
	[Cyst Epithelial Inclusion TGLs = 1-14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 630

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60700

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Pancreas
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Gallbladder		Vacuolization Cytoplasmic	Mild
* Harderian Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
	[Clear Cell Focus TGLs = 3-5]		
	[Hepatocellular Adenoma TGLs = 1,2,4-12+13+14]		
* Lung		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 630

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60700

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Glandular		Inflammation	Chronic Active, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 631

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60701

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Pancreas	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Parathyroid Gland	* Thyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
		Infiltration Cellular	Lymphoid, Minimal
* Gallbladder		Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 3,4,5-5+12]		
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 1,2-6+13]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 631

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60701

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Prostate		Infiltration Cellular	Lymphoid, Minimal
* Stomach, Forestomach		Abscess	Mild
		Inflammation	Chronic Active, Mild

[Abscess TGLs = 6-9]

[Inflammation TGLs = 6-9]

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 632

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60702

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 1,2,3,4-12+13+14]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic, Moderate
	[Alveolar/Bronchiolar Carcinoma TGLs = 5-4]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 632

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60702

ORGAN AND ACCOUNTABLE SITE STATUS

Respirat Epith	Accumulation, Hyaline Droplet	Mild
Respirat Epith	Atrophy	Minimal
	Exudate	Moderate
Respirat Epith	Hyperplasia	Mild
	Inflammation	Chronic Active, Minimal
Respirat Epith	Necrosis	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 633

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60703

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Intestine Small, Duodenum		Inflammation	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 4,5-5+6]		
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
	[Alveolar/Bronchiolar Adenoma TGLs = 1,3-4]		
	[Alveolar/Bronchiolar Carcinoma TGLs = 2-4]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 633

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60703

ORGAN AND ACCOUNTABLE SITE STATUS

Respirat Epith	Atrophy	Minimal
Turbinate	Atrophy	Minimal
	Exudate	Moderate
Respirat Epith	Hyperplasia	Minimal
	Inflammation	Chronic Active, Minimal
Nasopharyn Dct	Perforation	
	Cyst	
* Parathyroid Gland	Inflammation	Chronic Active, Mild
* Preputial Gland		
* Skin	Inflammation	Chronic Active, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 634

TRT#: 7

SEX: Male

DAY ON TEST: 613

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60704

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Pancreas
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
* Thymus			

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	[Hepatocellular Adenoma TGLs = 3-12]		
	[Hepatocellular Carcinoma TGLs = 4,5-5+13+14]		
* Lung	Alv/Bron Epith	Hyperplasia	Minimal
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
		Pigmentation	Minimal
	[Inflammation TGLs = 6-12]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 634

TRT#: 7

SEX: Male

DAY ON TEST: 613

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60704

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
* Preputial Gland		Inflammation	Chronic Active, Moderate
* Skin		Inflammation	Chronic Active, Moderate
	[Inflammation TGLs = 1-15]		
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Animal Note: TGL 2 = NCL (No Corresponding Lesion)

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 635

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Lymph Node, Mediastinal	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Harderian Gland		Adenoma	Multiple
[Adenoma TGLs = 1-11]			
* Intestine Large, Cecum		Hyperplasia	Lymphoid, Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
[Eosinophilic Focus TGLs = 3-5]			
[Hepatocellular Adenoma TGLs = 2-12]			
* Lung		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 635

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60705

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Inflammation	Chronic Active, Minimal
[Inflammation TGLs = 5-7]			
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLs = 4-6]			
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Olfactory Epi	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Spleen		Hyperplasia	Lymphoid, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 636

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
Pleura	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Preputial Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 2,3-5+6]		
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Olfactory Epi	Atrophy	Minimal
		Exudate	Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 636

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60706

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
	Turbinate	Perforation	
* Skin	Subcut Tiss	Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 1-12]		
* Spleen		Lymphoma Malignant	

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 637

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Hyperplasia	Lymphoid, Mild
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Clear Cell Focus	
* Lung		Alveolar/Bronchiolar Adenoma	
		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic, Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 637

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60707

ORGAN AND ACCOUNTABLE SITE STATUS

Respirat Epith	Atrophy	Minimal	
Turbinate	Atrophy	Minimal	
Olfactory Epi	Atrophy	Minimal	
	Exudate	Mild	
Respirat Epith	Hyperplasia	Mild	
	Inflammation	Chronic Active, Mild	
Respirat Epith	Necrosis	Minimal	
Nasopharyn Dct	Perforation		
Turbinate	Perforation		
* Pancreas	Acinus	Atrophy	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Testes		Degeneration	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 638

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60708

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Infiltration Cellular	Histiocyte, Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Respirat Epith	Exudate	Mild
* Preputial Gland	Respirat Epith	Hyperplasia	Mild
	Respirat Epith	Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Moderate
Tooth		Ectasia	Minimal
		Dysplasia	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 639

TRT#: 7

SEX: Male

DAY ON TEST: 667

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60709

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Islets, Pancreatic	* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Pancreas	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Urinary Bladder

MISSING

* Adrenal Cortex	* Adrenal Medulla	* Mammary Gland	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric
* Pituitary Gland	* Trachea		

OBSERVATIONS

* Epididymis		Exfoliated Germ Cell	
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
	Epiglottis	Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLs = 5,6-12+13]		
	[Hepatocellular Carcinoma TGLs = 7-14]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
		Pigmentation	Mild
	[Alveolar/Bronchiolar Carcinoma TGLs = 3,8-4+6]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 639

TRT#: 7

SEX: Male

DAY ON TEST: 667

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60709

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Ectasia	Minimal
		Inflammation	Chronic Active, Minimal
	[Ectasia TGLs = 4-8]		
* Skin		Cyst Epithelial Inclusion	
	[Cyst Epithelial Inclusion TGLs = 1-14]		

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma
CONTRIBUTORY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 640

TRT#: 7

SEX: Male

DAY ON TEST: 580

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60710

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Colon
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Urinary Bladder

MISSING

* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mediastinal	* Trachea

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Carcinoma	Multiple
	Hepatocyte	Necrosis	Moderate
	[Hepatocellular Carcinoma TGLs = 1,2-6+12]		
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Minimal
	Alv/Bron Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 640

TRT#: 7

SEX: Male

DAY ON TEST: 580

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60710

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Inflammation	Chronic Active, Mild
	Nasopharyn Dct	Necrosis	Minimal
* Thymus		Perforation	
		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 641

TRT#: 7

SEX: Male

DAY ON TEST: 675

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
	[Hepatocellular Adenoma TGLs = 4,5,7-5+6+12+14]		
	[Mixed Cell Focus TGLs = 6-13]		
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alv/Bron Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 641

TRT#: 7

SEX: Male

DAY ON TEST: 675

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60711

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland [Carcinoma TGLs = 1-3]	Olfactory Epi	Inflammation Metaplasia Carcinoma	Chronic Active, Mild Respiratory, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Skin		Cyst Epithelial Inclusion	
		Inflammation	Chronic Active, Marked
		Ulcer	Marked
[Cyst Epithelial Inclusion TGLs = 3-8] [Inflammation TGLs = 3-8] [Ulcer TGLs = 3-8]			
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 642

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60712

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Harderian Gland		Adenoma	
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia Inflammation	Squamous, Minimal Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Mixed Cell Focus	
	[Mixed Cell Focus TGLs = 4-14]		
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
	[Alveolar/Bronchiolar Adenoma TGLs = 1,3-4+12]		
	[Inflammation TGLs = 2-13]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 642

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60712

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
* Testes		Degeneration	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 643

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60713

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Bronchial * Lymph Node, Mandibular * Thymus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 4,5,6-5+6+12]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
	[Alveolar/Bronchiolar Carcinoma TGLs = 1,2-4]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 643

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60713

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLs = 3-4]

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Mild
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
* Spleen		Hyperplasia	Lymphoid, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 644

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60714

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric	Inflammation	Chronic, Moderate
[Hemangiosarcoma TGLs = 9-17]	Infiltration Cellular	Histiocyte, Mild
* Nose	Hemangiosarcoma	
Olfactory Epi	Accumulation, Hyaline Droplet	Mild
Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Exudate	Mild
Respirat Epith	Hyperplasia	Minimal
	Inflammation	Chronic Active, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 645

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60715

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Gallbladder	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
	Epiglottis	Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Marked
* Liver		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLs = 1-5]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 645

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60715

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Exudate	Moderate
		Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Marked
* Skin		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 646

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Pancreas	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Intestine Small, Ileum		Lymphoma Malignant	
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 646

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60716

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Lymphoma Malignant

* Stomach, Glandular

Inflammation

Chronic Active, Minimal

* Thymus

Cyst

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 647

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60717

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Epididymis		Exfoliated Germ Cell	
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	
	Hepatocyte	Necrosis	Minimal
	[Hepatocellular Adenoma TGLs = 4-5]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
	[Alveolar/Bronchiolar Carcinoma TGLs = 1,2-12+13]		
	[Inflammation TGLs = 3-4]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 647

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60717

ORGAN AND ACCOUNTABLE SITE STATUS

Respirat Epith	Accumulation, Hyaline Droplet	Mild
Respirat Epith	Atrophy	Minimal
Turbinate	Atrophy	Minimal
	Exudate	Moderate
Respirat Epith	Hyperplasia	Mild
	Inflammation	Chronic Active, Mild
Respirat Epith	Necrosis	Minimal
Nasopharyn Dct	Perforation	
Turbinate	Perforation	

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 648

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60718

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
		Hypertrophy	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Epididymis		Inflammation	Chronic Active, Minimal
* Harderian Gland		Adenoma	
	[Adenoma TGLs = 3-11]		
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
	[Hepatocellular Adenoma TGLs = 1,2-5+6]		
* Lung	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 648

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60718

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Hyperplasia	Lymphoid, Minimal
* Testes		Degeneration	Mild
* Thymus		Hyperplasia	Lymphoid, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 649

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Moderate
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Clear Cell Focus	
* Lung		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
	[Alveolar/Bronchiolar Carcinoma	TGLs = 1-4]	
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 649

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60719

ORGAN AND ACCOUNTABLE SITE STATUS

	Turbinate	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thymus		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Cyst	
Tooth		Dysplasia	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 650

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60720

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Exfoliated Germ Cell	
* Harderian Gland		Adenoma	
[Adenoma TGLs = 2-11]			
* Kidney		Infarct	Chronic, Mild
		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Clear Cell Focus	
[Clear Cell Focus TGLs = 1-6]			
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
[Alveolar/Bronchiolar Carcinoma TGLs = 3-4]			
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 650

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60720

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Hemangioma	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 101

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mediastinal
* Mammary Gland	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Mild
* Parathyroid Gland		Ectopic Tissue	Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	
	[Carcinoma TGLs = 1-9]		
* Spleen		Hyperplasia	Lymphoid, Moderate
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
		Mineralization	Minimal
* Thymus		Ectopic Parathyroid Gland	Minimal
		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 102

TRT#: 2

SEX: Female

DAY ON TEST: 575

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60622

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Mammary Gland | * Pancreas | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---------------------------|--|------------------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| Blood Vessel | Aorta | Lymphoma Malignant | Metastatic (Lung) |
| * Gallbladder | | Lymphoma Malignant | |
| * Harderian Gland | | Lymphoma Malignant | |
| * Heart | | Lymphoma Malignant | |
| * Kidney | | Lymphoma Malignant | |
| | | Nephropathy | Minimal |
| * Larynx | Epiglottis | Hyperplasia | Squamous, Minimal |
| | | Inflammation | Chronic Active, Mild |
| * Liver | | Lymphoma Malignant | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Lymphoma Malignant | |
| | [Alveolar/Bronchiolar Adenoma TGLs = 2-12] | | |
| Lymph Node | Iliac | Lymphoma Malignant | |
| | Renal | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 6-12] | | |
| | [Lymphoma Malignant TGLs = 5-6] | | |
| * Lymph Node, Bronchial | | Lymphoma Malignant | |
| * Lymph Node, Mandibular | | Lymphoma Malignant | |
| * Lymph Node, Mediastinal | | Lymphoma Malignant | |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 102

TRT#: 2

SEX: Female

DAY ON TEST: 575

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60622

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
* Ovary	Periovarn Tiss	Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 4-5]		
* Stomach, Forestomach		Hyperkeratosis	Minimal
* Thymus		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 3-3]		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Lung Lymphoma Malignant

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 103

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60623

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lung	* Lymph Node, Mediastinal	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 1-12]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Ovary		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Minimal
	[Adenoma TGLs = 2-9]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Lymphoid, Moderate
* Thymus		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 104

TRT#: 2

SEX: Female

DAY ON TEST: 597

DOSE: Control

DISP: Natural Death

HISTO: 60624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular
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INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Larynx		Inflammation	Chronic Active, Mild
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 2-6]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Ovary		Cyst	Marked
		Hemorrhage	Marked
	[Cyst TGLs = 1-8]		
	[Hemorrhage TGLs = 1-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Ovary Hemorrhage

CONTRIBUTORY CAUSE OF DEATH - Ovary Cyst

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 105

TRT#: 2

SEX: Female

DAY ON TEST: 550

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60625

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland
* Pituitary Gland	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea			

MISSING

* Gallbladder	* Parathyroid Gland
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OBSERVATIONS

* Brain		Hemorrhage	Minimal
* Heart		Histiocytic Sarcoma	
		Mineralization	Minimal
* Islets, Pancreatic		Histiocytic Sarcoma	Metastatic (Spleen)
* Kidney		Histiocytic Sarcoma	
		Necrosis	Minimal
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 3-5+12]		
* Lung		Histiocytic Sarcoma	
Lymph Node	Renal	Histiocytic Sarcoma	
	Lumbar	Histiocytic Sarcoma	
		Histiocytic Sarcoma	
	Note: TGL 6- 13 is caudal lymph node		
	[Histiocytic Sarcoma TGLs = 4-6]		
	[Histiocytic Sarcoma TGLs = 5-12]		
	[Histiocytic Sarcoma TGLs = 6-13]		
* Lymph Node, Bronchial		Histiocytic Sarcoma	
* Lymph Node, Mandibular		Histiocytic Sarcoma	
* Lymph Node, Mediastinal		Histiocytic Sarcoma	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 105

TRT#: 2

SEX: Female

DAY ON TEST: 550

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60625

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Histiocytic Sarcoma	
[Histiocytic Sarcoma	TGLs = 7-7]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Ovary		Histiocytic Sarcoma	
[Histiocytic Sarcoma	TGLs = 1-8]		
* Pancreas		Histiocytic Sarcoma	
* Salivary Glands		Histiocytic Sarcoma	
* Spleen		Angiectasis	Minimal
		Histiocytic Sarcoma	
[Histiocytic Sarcoma	TGLs = 2-5]		
* Stomach, Forestomach		Hyperplasia	Minimal
* Thymus		Histiocytic Sarcoma	
* Urinary Bladder		Histiocytic Sarcoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH - Lymph Node, Mesenteric Histiocytic Sarcoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 106

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60626

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Esophagus	Periesoph Tiss	Inflammation	Chronic Active, Mild
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Mixed Cell Focus	
		Tension Lipidosis	Minimal
	[Mixed Cell Focus TGLs = 2-5]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[Alveolar/Bronchiolar Carcinoma TGLs = 1-4]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	[Hyperplasia TGLs = 3-9]		
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 107

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60627

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Mild
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 108

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60628

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland	* Thymus
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
	Coron Artery	Fibrosis	Mild
* Kidney		Infarct	Chronic, Mild
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
	[Alveolar/Bronchiolar Carcinoma	TGLs = 1,2-4]	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 109

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60629

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibro-Osseous Lesion	
* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Nephropathy	Minimal
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Ovary		Cyst	
	[Cyst TGLs = 1-8]		
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thymus		Histiocytic Sarcoma	
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 110

TRT#: 2

SEX: Female

DAY ON TEST: 522

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60630

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	* Skin	Spinal Cord	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Brain		Compression	Moderate
* Intestine Small, Duodenum		Inflammation	Mild
[Inflammation TGLs = 2-6+7]			
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
* Mammary Gland		Hyperplasia	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Nasolacrim Dct	Inflammation	Chronic Active, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLs = 1-9]			
Skeletal Muscle		Degeneration	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 110

TRT#: 2

SEX: Female

DAY ON TEST: 522

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60630

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Minimal

* Uterus

Adenomyosis

Minimal

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 111

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60631

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone		Fibro-Osseous Lesion	
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 112

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60632

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	[Eosinophilic Focus TGLs = 3,5-12+14]		
	[Hepatocellular Adenoma TGLs = 2,4-5+13]		
* Nose		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1-9]		
* Spleen		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland		Cyst	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 113

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60633

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Mammary Gland | * Ovary | * Pancreas | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---|----------------|------------------|-------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| * Liver | | Angiectasis | Minimal |
| | | Basophilic Focus | |
| | | Inflammation | Chronic Active, Minimal |
| <p>Note: Angiectasis is associated with TGL 1
 [Basophilic Focus TGLs = 1-12]</p> | | | |
| * Nose | Respirat Epith | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 114

TRT#: 2

SEX: Female

DAY ON TEST: 631

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60634

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Mammary Gland |
| * Parathyroid Gland | * Skin | * Trachea | |

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|---------------------------|---------------|--------------------|------------------------------------|
| * Adrenal Cortex | | Lymphoma Malignant | |
| Blood Vessel | Aorta | Lymphoma Malignant | Metastatic (Lymph Node, Bronchial) |
| * Bone Marrow | | Lymphoma Malignant | |
| * Eye | | Lymphoma Malignant | |
| * Gallbladder | | Lymphoma Malignant | |
| [Lymphoma Malignant | TGLs = 3-5] | | |
| * Harderian Gland | | Lymphoma Malignant | |
| * Heart | | Lymphoma Malignant | |
| * Islets, Pancreatic | | Lymphoma Malignant | Metastatic (Pancreas) |
| * Kidney | | Lymphoma Malignant | |
| * Larynx | | Lymphoma Malignant | |
| * Liver | | Lymphoma Malignant | |
| * Lung | | Lymphoma Malignant | |
| Lymph Node | Lumbar | Lymphoma Malignant | |
| | Pancreatic | Lymphoma Malignant | |
| | Renal | Lymphoma Malignant | |
| [Lymphoma Malignant | TGLs = 7-14] | | |
| [Lymphoma Malignant | TGLs = 8-16] | | |
| [Lymphoma Malignant | TGLs = 6-13] | | |
| * Lymph Node, Bronchial | | Lymphoma Malignant | |
| * Lymph Node, Mandibular | | Lymphoma Malignant | |
| [Lymphoma Malignant | TGLs = 1-12] | | |
| * Lymph Node, Mediastinal | | Lymphoma Malignant | |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 114

TRT#: 2

SEX: Female

DAY ON TEST: 631

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60634

ORGAN AND ACCOUNTABLE SITE STATUS

	[Lymphoma Malignant TGLs = 2-3]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 10-15]		
Mesentery		Lymphoma Malignant	
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Mild
* Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 4-6]		
* Stomach, Forestomach		Lymphoma Malignant	
* Stomach, Glandular		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Thyroid Gland		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH - Lymph Node, Mesenteric Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 115

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60635

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Urinary Bladder

MISSING

* Parathyroid Gland	* Trachea
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Brain		Compression	Mild
		Hemorrhage	Minimal
		Hydrocephalus	Mild
		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Mild
* Ovary		Cyst	
	[Cyst TGLs = 2-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1-9]		
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 116

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60636

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Kidney		Cyst	
		Hyperplasia	Lymphoid, Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLs = 1-3]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Minimal
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 117

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60637

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Kidney		Hyperplasia	Lymphoid, Mild
		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
	Hepatocyte	Necrosis	Minimal
	[Hepatocellular Adenoma TGLs = 1-12]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
	[Alveolar/Bronchiolar Carcinoma TGLs = 2-4]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 118

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60638

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland | * Pancreas |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|--------------------------|------------------------------|-----------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| * Lymph Node, Bronchial | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Mild |
| Mesentery | | Inflammation | Chronic Active, Mild |
| | | Pigmentation | Mild |
| | [Inflammation TGLs = 2-13] | | |
| * Nose | | Exudate | Minimal |
| | Respirat Epith | Hyperplasia | Minimal |
| * Ovary | | Cyst | Multiple |
| | [Cyst TGLs = 1-12] | | |
| * Pituitary Gland | | Hyperplasia | Minimal |
| * Spleen | | Hyperplasia | Lymphoid, Mild |
| * Thymus | | Hyperplasia | Lymphoid, Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 119

TRT#: 2

SEX: Female

DAY ON TEST: 481

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60639

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------|--------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Islets, Pancreatic | * Lymph Node, Bronchial | * Mammary Gland |
| * Salivary Glands | * Skin | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|------------------|---------------------|
| * Clitoral Gland | * Parathyroid Gland |
|------------------|---------------------|

INSUFFICIENT TISSUE

- * Lymph Node, Mesenteric

OBSERVATIONS

- | | | |
|----------------------------|--------------|-------------------------|
| * Adrenal Cortex | Hypertrophy | Minimal |
| | Inflammation | Chronic Active, Minimal |
| * Bone Marrow | Hyperplasia | Granulocytic, Marked |
| * Brain | Inflammation | Chronic Active, Minimal |
| * Gallbladder | Inflammation | Chronic Active, Minimal |
| * Heart | Inflammation | Chronic Active, Mild |
| * Intestine Large, Cecum | Inflammation | Mild |
| * Intestine Small, Ileum | Inflammation | Marked |
| * Intestine Small, Jejunum | Inflammation | Marked |
| | Perforation | Marked |

Note: Perforated small intestine is associated with TGL 3, incorporated within the wall of the abcess forming the TGL mass.

- | | | |
|------------|--------------|-------------------------|
| * Kidney | Inflammation | Chronic Active, Mild |
| | Nephropathy | Mild |
| * Larynx | Inflammation | Chronic Active, Minimal |
| * Liver | Hyperplasia | Granulocytic, Marked |
| | Inflammation | Chronic Active, Marked |
| * Lung | Interstitial | Suppurative, Mild |
| Lymph Node | Iliac | Mixed Cell, Mild |

[Infiltration Cellular TGLs = 4-6]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 119

TRT#: 2

SEX: Female

DAY ON TEST: 481

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60639

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mediastinal		Hyperplasia	Plasma Cell, Marked
	[Hyperplasia TGLs = 1-3]		
Mesentery		Inflammation	Chronic Active, Marked
	Note: TGL 3 is an abcess, centrally necrotic and rimmed by a thick wall of fibrosis and inflammation which is adhered to the liver and body wall.		
	[Inflammation TGLs = 3-13]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Ovary	Periovarn Tiss	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Marked
		Hyperplasia	Granulocytic, Marked
	[Hematopoietic Cell Proliferation TGLs = 2-5]		
* Stomach, Forestomach		Inflammation	Chronic Active, Marked
* Stomach, Glandular		Inflammation	Chronic Active, Marked
	Note: The stomach is incorporated into TGL 3		
* Thymus		Atrophy	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Mesentery Inflammation

CONTRIBUTORY CAUSE OF DEATH - Intestine Small, Jejunum Perforation

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 120

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60640

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone Marrow	* Brain	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibro-Osseous Lesion	
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 1-5]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Nose		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 121

TRT#: 2

SEX: Female

DAY ON TEST: 694

DOSE: Control

DISP: Natural Death

HISTO: 60641

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-------------------|-------------------|---------------------------|----------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Esophagus | * Harderian Gland | * Islets, Pancreatic |
| * Larynx | * Liver | * Lymph Node, Mediastinal | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Thyroid Gland |
| * Trachea | | | |

MISSING

- * Clitoral Gland

AUTO PRECLUDES DIAG.

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone Marrow | * Eye | * Gallbladder | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney |
| * Lymph Node, Bronchial | * Stomach, Glandular | | |

OBSERVATIONS

- | | | | |
|--------------------------------|----------------|----------------------------------|------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Cecum | | Inflammation | Mild |
| * Intestine Large, Colon | | Inflammation | Mild |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Thrombosis | Mild |
| [Alveolar/Bronchiolar Adenoma | TGLs = 1-4] | | |
| Lymph Node | Lumbar | Inflammation | Suppurative, Marked |
| | Lumbar | Necrosis | Marked |
| [Inflammation | TGLs = 4-6] | | |
| * Lymph Node, Mandibular | | Infiltration Cellular | Plasma Cell, Mild |
| * Lymph Node, Mesenteric | | Inflammation | Chronic Active, Marked |
| | | Necrosis | Marked |
| * Mammary Gland | | Inflammation | Minimal |
| * Nose | Respirat Epith | Hyperplasia | Mild |
| * Ovary | | Inflammation | Chronic Active, Marked |
| * Pancreas | | Inflammation | Chronic Active, Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 121

TRT#: 2

SEX: Female

DAY ON TEST: 694

DOSE: Control

DISP: Natural Death

HISTO: 60641

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLs = 2-5]	Inflammation	Suppurative, Mild
* Stomach, Forestomach	Inflammation	Chronic Active, Minimal
* Thymus	Atrophy	Mild
* Urinary Bladder	Inflammation	Chronic Active, Minimal
* Uterus	Inflammation	Chronic Active, Mild
[Inflammation TGLs = 3-9]		

PRIMARY CAUSE OF DEATH - Lymph Node Lumbar Inflammation

CONTRIBUTORY CAUSE OF DEATH - Lymph Node Lumbar Necrosis

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 122

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60642

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Harderian Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Mild
	Hepatocyte	Necrosis	Minimal
	[Hepatocellular Adenoma TGLs = 3-6]		
	[Inflammation TGLs = 2-12]		
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1-9]		
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 123

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60643

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Mediastinal
* Mammary Gland	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Compression	Mild
* Harderian Gland		Hyperplasia	Minimal
* Heart		Infiltration Cellular	Lymphoid, Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Ovary		Cyst	
	[Cyst TGLs = 1-8]		
* Pituitary Gland	Pars Distalis	Carcinoma	
	[Carcinoma TGLs = 2-9]		
* Spleen		Hyperplasia	Lymphoid, Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 124

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Bone		Fibro-Osseous Lesion	
* Harderian Gland		Carcinoma	
	[Carcinoma TGLs = 1-11]		
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 125

TRT#: 2

SEX: Female

DAY ON TEST: 645

DOSE: Control

DISP: Natural Death

HISTO: 60645

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Parathyroid Gland	* Pituitary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
* Liver		Basophilic Focus	
		Hepatocellular Carcinoma	
	[Basophilic Focus TGLs = 3-6]		
	[Hepatocellular Carcinoma TGLs = 2-12]		
* Lung		Carcinoma	Metastatic (Thyroid Gland)
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Ovary		Cyst	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Carcinoma	
	[Carcinoma TGLs = 1-3]		
Tissue NOS		Hemorrhage	Marked
Note: Tissue ID: Retroperitoneum			

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 125

TRT#: 2

SEX: Female

DAY ON TEST: 645

DOSE: Control

DISP: Natural Death

HISTO: 60645

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLs = 4-13]

PRIMARY CAUSE OF DEATH - Tissue NOS Hemorrhage
CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Carcinoma
- Thyroid Gland C Cell Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 126

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60646

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Moderate
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Infiltration Cellular	Lymphoid, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Inflammation	Chronic Active, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 127

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60647

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Mild
	Hepatocyte	Necrosis	Mild
[Hepatocellular Adenoma	TGLs = 1-6]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 128

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60648

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lung |
| * Mammary Gland | * Ovary | * Pancreas | * Pituitary Gland |
| * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | | | |

MISSING

- | | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

OBSERVATIONS

- | | | | |
|--------------------------|----------------|--------------|-------------------------|
| * Intestine Small, Ileum | | Hyperplasia | Lymphoid, Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| * Lymph Node, Bronchial | | Hyperplasia | Lymphoid, Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Minimal |
| * Nose | Respirat Epith | Hyperplasia | Minimal |
| * Parathyroid Gland | | Adenoma | |
| * Skin | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Hyperplasia | Lymphoid, Mild |
| * Thymus | | Hyperplasia | Lymphoid, Mild |
| * Urinary Bladder | | Inflammation | Chronic Active, Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Inflammation | Chronic Active, Mild |

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 129

TRT#: 2

SEX: Female

DAY ON TEST: 721

DOSE: Control

DISP: Natural Death

HISTO: 60649

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Harderian Gland		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Basophilic Focus TGLs = 3-5]		
	[Hepatocellular Adenoma TGLs = 4,5-6+13]		
	[Hepatocellular Carcinoma TGLs = 6-12]		
* Nose		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2-9]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 130

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60650

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma	TGLs = 1-6]		
* Nose	Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Intermed	Hyperplasia	Moderate
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 131

TRT#: 2

SEX: Female

DAY ON TEST: 673

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60651

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal
* Mammary Gland	Peripheral Nerve	* Pituitary Gland	* Salivary Glands
Skeletal Muscle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Histiocytic Sarcoma	Metastatic (Liver)
* Intestine Large, Rectum		Edema	Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
* Liver		Histiocytic Sarcoma	
		Necrosis	Moderate
		[Histiocytic Sarcoma TGLs = 4,5,6,7-5+6+12+13]	
		[Necrosis TGLs = 4,5,6,7-5+6+12+13]	
* Lung		Histiocytic Sarcoma	
* Lymph Node, Bronchial		Histiocytic Sarcoma	
* Lymph Node, Mandibular		Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Hemangioma	
Mesentery	Fat	Necrosis	Mild
		[Necrosis TGLs = 2-14]	
* Nose	Respirat Epith	Hyperplasia	Mild
* Ovary		Histiocytic Sarcoma	
* Pancreas		Histiocytic Sarcoma	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 131

TRT#: 2

SEX: Female

DAY ON TEST: 673

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60651

ORGAN AND ACCOUNTABLE SITE STATUS

	Necrosis	Minimal
[Histiocytic Sarcoma TGLs = 3-5]		
[Necrosis TGLs = 3-5]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
	Histiocytic Sarcoma	
* Thymus	Atrophy	Minimal
* Uterus	Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLs = 8-15]		

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 132

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60652

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Hepatoblastoma	
		Hepatocellular Carcinoma	
	[Hepatoblastoma TGLs = 4-12]		
	[Hepatocellular Carcinoma TGLs = 3-13]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 2-13]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Ovary		Cyst	
	[Cyst TGLs = 1-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Lymphoid, Mild
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Stomach, Glandular		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 132

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60652

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 133

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60653

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

INSUFFICIENT TISSUE

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Minimal
* Heart		Cardiomyopathy	Minimal
		Lymphoma Malignant	
* Intestine Small, Ileum		Lymphoma Malignant	
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Basophilic Focus	
	[Basophilic Focus TGLs = 1-5]		
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Ovary		Angiectasis	Minimal
* Pancreas		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 2-5]		
* Stomach, Forestomach		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLs = 3-9]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 133

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60653

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Lymphoma Malignant

* Uterus

Angiectasis

Minimal

Endometrium

Hyperplasia

Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 134

TRT#: 2

SEX: Female

DAY ON TEST: 647

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60654

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Bronchial
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hypertrophy	Minimal
* Brain		Compression	Moderate
* Intestine Small, Duodenum		Lymphoma Malignant	
[Lymphoma Malignant TGLs = 7-12]			
* Larynx		Inflammation	Chronic Active, Minimal
Lymph Node	Pancreatic	Lymphoma Malignant	
[Lymphoma Malignant TGLs = 6-6]			
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
[Lymphoma Malignant TGLs = 2-3]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
* Ovary		Cyst	
[Cyst TGLs = 5-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-9]			
* Spleen		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
[Lymphoma Malignant TGLs = 1-3]			

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 134

TRT#: 2

SEX: Female

DAY ON TEST: 647

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60654

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hemangiosarcoma	
		Hyperplasia	Cystic, Moderate
[Hemangiosarcoma	TGLs = 4-9]		

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Lymph Node Pancreatic Lymphoma Malignant

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 135

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60655

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Lymphoma Malignant	
* Gallbladder		Lymphoma Malignant	
* Heart		Cardiomyopathy	Minimal
* Kidney		Lymphoma Malignant	
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Lymphoma Malignant	
Lymph Node	Lumbar	Angiectasis	Mild
	Lumbar	Lymphoma Malignant	
	[Angiectasis TGLs = 2-13]		
	[Lymphoma Malignant TGLs = 2-13]		
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 3,4-6+12]		
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Ovary		Cyst	
	[Cyst TGLs = 1-8]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 135

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60655

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLs = 5-9]		
* Spleen		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 136

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60656

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Intestine Small, Ileum		Lymphoma Malignant	
* Intestine Small, Jejunum		Lymphoma Malignant	
* Kidney		Infarct	Chronic, Minimal
		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Fatty Change	Mild
		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLs = 1-6]		
* Lung		Lymphoma Malignant	
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
* Stomach, Glandular		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 136

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60656

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Lymphoma Malignant

* Urinary Bladder

Lymphoma Malignant

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 137

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60657

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Clitoral Gland | * Esophagus |
| * Eye | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Glandular |
| * Thyroid Gland | | | |

OBSERVATIONS

- | | | | |
|---------------------------|--|--------------------------|---------------------|
| * Adrenal Cortex | | Lymphoma Malignant | |
| Blood Vessel | Aorta | Lymphoma Malignant | Metastatic (Spleen) |
| * Bone Marrow | | Lymphoma Malignant | |
| * Brain | | Lymphoma Malignant | |
| * Gallbladder | | Lymphoma Malignant | |
| * Harderian Gland | | Carcinoma | |
| * Heart | | Lymphoma Malignant | |
| * Kidney | | Lymphoma Malignant | |
| * Larynx | | Lymphoma Malignant | |
| * Liver | | Hepatocellular Carcinoma | |
| | | Lymphoma Malignant | |
| | [Hepatocellular Carcinoma TGLs = 7-13] | | |
| | [Lymphoma Malignant TGLs = 5,6,7-5+6+13] | | |
| * Lung | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 10-12] | | |
| Lymph Node | Inguinal | Lymphoma Malignant | |
| | Pancreatic | Lymphoma Malignant | |
| | Axillary | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 8-12] | | |
| | [Lymphoma Malignant TGLs = 9-14] | | |
| * Lymph Node, Bronchial | | Lymphoma Malignant | |
| * Lymph Node, Mandibular | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 1-8] | | |
| * Lymph Node, Mediastinal | | Lymphoma Malignant | |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 137

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60657

ORGAN AND ACCOUNTABLE SITE STATUS

	[Lymphoma Malignant TGLs = 2-3]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Mammary Gland		Lymphoma Malignant	Metastatic (Spleen)
Mesentery		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 4-13]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 3-5]		
* Stomach, Forestomach		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Trachea		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
* Uterus		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH - Liver Lymphoma Malignant
 CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 138

TRT#: 2

SEX: Female

DAY ON TEST: 353

DOSE: Control

DISP: Accidentally Killed

HISTO: 60658

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Liver | * Lung | * Lymph Node, Bronchial | * Lymph Node, Mesenteric |
| * Mammary Gland | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

INSUFFICIENT TISSUE

- * Lymph Node, Mediastinal

OBSERVATIONS

- | | | | |
|----------|---------------------------|--------------|-------------------------|
| * Larynx | | Inflammation | Chronic Active, Minimal |
| * Nose | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Mild |
| * Skin | | Edema | Mild |
| | | Hemorrhage | Acute, Moderate |
| | [Edema TGLs = 1-6] | | |
| | [Hemorrhage TGLs = 1-6] | | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH

- Skin Hemorrhage

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 139

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60659

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Infarct	Chronic, Mild
		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
* Liver		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLs = 3-12]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[Alveolar/Bronchiolar Carcinoma TGLs = 2-4]		
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 1-13]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 140

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mediastinal	* Mammary Gland	* Pancreas	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Brain		Lymphoma Malignant	
* Heart		Cardiomyopathy	Minimal
* Kidney		Lymphoma Malignant	
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Lymphoma Malignant	
* Lung		Alveolar/Bronchiolar Carcinoma	
		Lymphoma Malignant	
	[Alveolar/Bronchiolar Carcinoma TGLs = 3-4]		
* Lymph Node, Bronchial		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 4-4]		
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
	Nasolacrim Dct	Inflammation	Chronic Active, Minimal
* Ovary		Cystadenoma	
		Lymphoma Malignant	
	[Cystadenoma TGLs = 2-8]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 140

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60660

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLs = 1-9]	Pars Distalis	Adenoma	
* Spleen		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 141

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60661

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------------|-------------------------|
| * Kidney | | Nephropathy | Mild |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Hepatocellular Carcinoma | |
| | [Eosinophilic Focus TGLs = 4-5] | | |
| | [Hepatocellular Carcinoma TGLs = 5-12] | | |
| * Nose | | Exudate | Minimal |
| | Respirat Epith | Hyperplasia | Minimal |
| * Ovary | | Cyst | |
| | [Cyst TGLs = 2-8] | | |
| * Pituitary Gland | | Adenoma | |
| | [Adenoma TGLs = 1-9] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Ectopic Parathyroid Gland | Minimal |
| | | Hyperplasia | Lymphoid, Minimal |
| * Uterus | | Hyperplasia | Cystic, Minimal |
| | Endometrium | Polyp Stromal | |
| | [Polyp Stromal TGLs = 3-9] | | |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 142

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60662

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Bronchial

OBSERVATIONS

- | | | | |
|---------------------------------|----------------|----------------------------------|-------------------------|
| Blood Vessel | Aorta | Hemangiosarcoma | |
| * Kidney | | Nephropathy | Mild |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| * Liver | | Basophilic Focus | |
| [Basophilic Focus TGLs = 2-5] | | | |
| Lymph Node | Lumbar | Hemangiosarcoma | |
| [Hemangiosarcoma TGLs = 1-12] | | | |
| * Nose | Respirat Epith | Hyperplasia | Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Minimal |
| * Ovary | | Cyst | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 143

TRT#: 2

SEX: Female

DAY ON TEST: 613

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60663

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
		Necrosis	Minimal
* Nose	Respirat Epith	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 144

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60664

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Liver | * Lung | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
| * Mammary Gland | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mediastinal

OBSERVATIONS

- | | | | |
|--------------------------|----------------|-------------------------------|-------------------------|
| * Larynx | | Inflammation | Chronic Active, Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Minimal |
| * Nose | Respirat Epith | Accumulation, Hyaline Droplet | Minimal |
| | Olfactory Epi | Atrophy | Minimal |
| | Respirat Epith | Atrophy | Minimal |
| | | Exudate | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Respirat Epith | Metaplasia | Squamous, Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 145

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Harderian Gland		Adenoma	
[Adenoma TGLs = 3-11]			
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLs = 2-6]			
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Ovary		Cyst	
[Cyst TGLs = 1-8]			
Peripheral Nerve		Degeneration	Minimal
Skeletal Muscle		Infiltration Cellular	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH - Skeletal Muscle Infiltration Cellular

CONTRIBUTORY CAUSE OF DEATH - Peripheral Nerve Degeneration

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 146

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60666

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Harderian Gland		Carcinoma	
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 1-6]		
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 3-3]		
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Pancreas	Duct	Cyst	
	[Cyst TGLs = 2-12]		
* Spleen		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 147

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60667

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Infarct	Chronic, Mild
		Lymphoma Malignant	
		Mineralization	Mild
		Nephropathy	Moderate
* Larynx		Inflammation	Chronic Active, Minimal
* Liver		Lymphoma Malignant	
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLs = 2-4]		
	Lymph Node	Pancreatic	
	[Lymphoma Malignant TGLs = 4-12]		
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLs = 3-9]		
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 1-12]		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 148

TRT#: 2

SEX: Female

DAY ON TEST: 628

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60668

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Mammary Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Gallbladder	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Histiocytic Sarcoma	
* Adrenal Medulla		Histiocytic Sarcoma	
* Bone		Fibro-Osseous Lesion	
* Bone Marrow		Histiocytic Sarcoma	
* Intestine Small, Duodenum		Histiocytic Sarcoma	
* Islets, Pancreatic		Histiocytic Sarcoma	Metastatic (Pancreas)
* Kidney	Artery	Histiocytic Sarcoma	
* Larynx		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
* Liver		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 4,5,6,7,8-5+6+12+13]		
* Lung		Histiocytic Sarcoma	
Lymph Node	Pancreatic	Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 10-16]		
* Lymph Node, Bronchial		Histiocytic Sarcoma	
* Lymph Node, Mandibular		Histiocytic Sarcoma	
* Lymph Node, Mediastinal		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 3-3]		
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 9-15]		
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 148

TRT#: 2

SEX: Female

DAY ON TEST: 628

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 60668

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Hyperplasia	Minimal
* Ovary		Histiocytic Sarcoma	
* Pancreas		Histiocytic Sarcoma	
* Spleen		Angiectasis	Minimal
		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 2-14]		
* Thymus		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 3-3]		
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[Hyperplasia TGLs = 1-9]		

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 149

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60669

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Infiltration Cellular	Lymphoid, Mild
* Larynx		Inflammation	Chronic Active, Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 1-6]			
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Ovary		Cyst	
[Cyst TGLs = 2-8]			
* Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
* Spleen		Hyperplasia	Lymphoid, Minimal
* Thymus		Cyst	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 150

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 60670

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone		Fibro-Osseous Lesion	
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Ovary		Granulosa Cell Tumor Benign	
	[Granulosa Cell Tumor Benign		
	TGLs = 2-8]		
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLs = 1-9]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 301

TRT#: 4

SEX: Female

DAY ON TEST: 607

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60921

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

INSUFFICIENT TISSUE

* Lymph Node, Mandibular * Thymus

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
	Epiglottis	Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Mild
* Liver		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLs = 2,3-12+13]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric	Artery	Inflammation	Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Necrosis	Lymphoid, Minimal
	[Hematopoietic Cell Proliferation TGLs = 1-5]		

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 302

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60922

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|-----------------------------|----------------|-------------------------------|-------------------------|
| * Heart | | Inflammation | Chronic Active, Minimal |
| * Intestine Small, Duodenum | | Inflammation | Minimal |
| * Intestine Small, Ileum | | Hyperplasia | Lymphoid, Mild |
| * Kidney | | Inflammation | Chronic Active, Minimal |
| * Larynx | | Inflammation | Chronic Active, Mild |
| | Epiglottis | Metaplasia | Squamous, Mild |
| * Liver | | Clear Cell Focus | |
| | | Tension Lipidosis | Minimal |
| * Lymph Node, Mediastinal | | Hyperplasia | Lymphoid, Minimal |
| * Nose | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
| | | Cyst | Squamous |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Hyperplasia | Lymphoid, Minimal |
| * Thymus | | Hyperplasia | Lymphoid, Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |

[Hyperplasia TGLs = 1-9]

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 724

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60923

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

INSUFFICIENT TISSUE

* Intestine Large, Rectum * Lymph Node, Bronchial

OBSERVATIONS

* Heart		Inflammation	Chronic Active, Marked
* Kidney		Infarct	Chronic, Mild
	Glomerulus	Inflammation	Acute, Minimal
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Carcinoma	Multiple
	Hepatocyte	Hypertrophy	Moderate
	[Hepatocellular Carcinoma TGLs = 4,5-5+13]		
	[Hypertrophy TGLs = 6-14]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	[Hepatocellular Carcinoma TGLs = 1,9-6+12]		
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 8-12]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 724

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60923

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
		Necrosis	Acute, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
	[Hematopoietic Cell Proliferation TGLs = 7-5]		
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thymus		Atrophy	Minimal
* Uterus		Angiectasis	Mild
	[Angiectasis TGLs = 3-9]		

PRIMARY CAUSE OF DEATH - Heart Inflammation
CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Carcinoma
- Lung Hepatocellular Carcinoma Liver

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 304

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60924

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	[Clear Cell Focus TGLs = 5-12]		
	[Hepatocellular Adenoma TGLs = 3,4-5+13]		
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 1-14]		
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2-9]		
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thymus		Cyst	
		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60925

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone		Fibro-Osseous Lesion	
* Harderian Gland		Carcinoma	
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Inflammation	Mild
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Angiectasis	Marked
		Clear Cell Focus	
	[Angiectasis TGLs = 1-5]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thymus		Hyperplasia	Lymphoid, Mild
* Uterus		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60926

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
| * Mammary Gland | * Ovary | * Pancreas | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|-------------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Kidney | | Hyperplasia | Lymphoid, Minimal |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Mild |
| * Liver | | Eosinophilic Focus | |
| | [Eosinophilic Focus TGLs = 3-12] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | [Alveolar/Bronchiolar Adenoma TGLs = 2-4] | | |
| * Lymph Node, Bronchial | | Hyperplasia | Lymphoid, Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Minimal |
| * Nose | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
| | Respirat Epith | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Hyperplasia | Lymphoid, Mild |
| * Thymus | | Hyperplasia | Lymphoid, Minimal |
| * Uterus | | Hemangioma | |
| | [Hemangioma TGLs = 1-9] | | |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 307

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60927

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal	* Parathyroid Gland
---------------------------	---------------------

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 308

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60928

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Mild
* Bone		Fibro-Osseous Lesion	
* Heart		Cardiomyopathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Angiectasis	Mild
		Hepatocellular Adenoma	
	[Angiectasis TGLs = 1-5]		
	[Hepatocellular Adenoma TGLs = 2-5]		
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Atrophy	Minimal
	Olfactory Epi	Atrophy	Minimal
		Exudate	Minimal
* Ovary		Angiectasis	Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 309

TRT#: 4

SEX: Female

DAY ON TEST: 479

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60929

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * Lung | * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|---------------------------|--------------------------------------|-------------------------------|----------------------|
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Mild |
| | Epiglottis | Metaplasia | Squamous, Marked |
| Lymph Node | Axillary | Schwannoma Malignant | Metastatic (Skin) |
| | [Schwannoma Malignant TGLs = 3-6] | | |
| * Lymph Node, Mediastinal | | Schwannoma Malignant | Metastatic (Skin) |
| * Nose | Respirat Epith | Accumulation, Hyaline Droplet | Minimal |
| | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
| | Respirat Epith | Hyperplasia | Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Minimal |
| * Ovary | | Cyst | |
| | [Cyst TGLs = 2-8] | | |
| * Skin | Subcut Tiss | Schwannoma Malignant | |
| | [Schwannoma Malignant TGLs = 1-12] | | |
| * Spleen | | Hyperplasia | Lymphoid, Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 310

TRT#: 4

SEX: Female

DAY ON TEST: 619

DOSE: 10 mg/m3

DISP: Natural Death

HISTO: 60930

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|---------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum | * Islets, Pancreatic |
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

AUTO PRECLUDES DIAG.

- | | | |
|---------------|-----------------------------|----------------------------|
| * Gallbladder | * Intestine Small, Duodenum | * Intestine Small, Jejunum |
|---------------|-----------------------------|----------------------------|

OBSERVATIONS

- | | | | |
|----------|-------------------------|-------------------------------|-------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Mild |
| | Epiglottis | Metaplasia | Squamous, Mild |
| * Liver | | Infarct | Marked |
| | [Infarct TGLs = 2-12] | | |
| * Lung | | Inflammation | Chronic, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Ovary | | Cyst | |
| | [Cyst TGLs = 1-8] | | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH - Liver Infarct

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 311

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60931

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thymus		Ectopic Parathyroid Gland	Minimal
		Hyperplasia	Lymphoid, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 312

TRT#: 4

SEX: Female

DAY ON TEST: 640

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60932

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Carcinoma	Metastatic (Mammary Gland)
		Necrosis	Focal, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Carcinoma	Metastatic (Mammary Gland)
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Fatty Change	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLs = 10-13]		
* Lung		Carcinoma	Metastatic (Mammary Gland)
	[Carcinoma TGLs = 3,4,5,6,7,8-4+6+12+13+14+15+16]		
* Lymph Node, Bronchial		Carcinoma	Metastatic (Mammary Gland)
* Mammary Gland		Carcinoma	
	[Carcinoma TGLs = 1-14]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 312

TRT#: 4

SEX: Female

DAY ON TEST: 640

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60932

ORGAN AND ACCOUNTABLE SITE STATUS

Lateral Wall
Respirat Epith
Respirat Epith

Inflammation
Metaplasia
Necrosis

Chronic Active, Moderate
Squamous, Minimal
Minimal

Note: Foreign body = plant material and hair

* Spleen

Hematopoietic Cell Proliferation
Inflammation

Mild
Suppurative, Mild

[Hematopoietic Cell Proliferation TGLs = 2-12]

* Uterus

Endometrium

Hemangiosarcoma
Hyperplasia

Cystic, Mild

[Hemangiosarcoma TGLs = 9-15]

PRIMARY CAUSE OF DEATH - Mammary Gland Carcinoma
CONTRIBUTORY CAUSE OF DEATH - Lung Carcinoma Mammary Gland

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 313

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60933

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

INSUFFICIENT TISSUE

* Clitoral Gland * Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibro-Osseous Lesion	
* Heart		Cardiomyopathy	Minimal
* Kidney		Hyperplasia	Lymphoid, Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 4-13]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLs = 5-12]		
* Mammary Gland		Adenoma	
	[Adenoma TGLs = 1-14]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 313

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60933

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Hyperplasia Inflammation Cystadenoma	Minimal Chronic Active, Minimal
* Ovary [Cystadenoma TGLs = 3-8]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Angiectasis	Minimal
		Hyperplasia	Lymphoid, Minimal
* Uterus [Hyperplasia TGLs = 2-9]	Endometrium	Hyperplasia	Cystic, Marked

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 314

TRT#: 4

SEX: Female

DAY ON TEST: 575

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60934

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Pituitary Gland	* Salivary Glands	Skeletal Muscle
Spinal Cord	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Skin	Subcut Tiss	Schwannoma Malignant	
	[Schwannoma Malignant TGLs = 3-12]		
* Spleen		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLs = 2-5]		
* Stomach, Forestomach		Hyperkeratosis	Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
		Inflammation	Chronic Active, Mild
	[Hyperplasia TGLs = 1-9]		

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 315

TRT#: 4

SEX: Female

DAY ON TEST: 697

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60935

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|---------------------------|---|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | | Histiocytic Sarcoma | |
| | | Hypertrophy | Mild |
| * Bone Marrow | | Histiocytic Sarcoma | |
| * Brain | Meninges | Histiocytic Sarcoma | |
| * Gallbladder | | Histiocytic Sarcoma | |
| * Kidney | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 2,3-6+12+13] | | |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Mild |
| * Liver | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 4,5,6,7,8,9-5+6+12+13+14+15+16] | | |
| * Lung | | Histiocytic Sarcoma | |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Bronchial | | Histiocytic Sarcoma | |
| * Lymph Node, Mandibular | | Histiocytic Sarcoma | |
| * Lymph Node, Mediastinal | | Histiocytic Sarcoma | |
| * Lymph Node, Mesenteric | | Histiocytic Sarcoma | |
| Mesentery | | Histiocytic Sarcoma | |
| | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 10-14] | | |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 315

TRT#: 4

SEX: Female

DAY ON TEST: 697

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60935

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Ovary		Histiocytic Sarcoma	
* Skin		Inflammation	Chronic Active, Moderate
		Ulcer	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 1-5]		
* Stomach, Forestomach		Histiocytic Sarcoma	
		Hyperkeratosis	Mild
		Hyperplasia	Mild
* Thymus		Histiocytic Sarcoma	

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

CONTRIBUTORY CAUSE OF DEATH - Kidney Histiocytic Sarcoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60936

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Bone		Fibro-Osseous Lesion	
* Bone Marrow		Lymphoma Malignant	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
		Metaplasia	Osseous, Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Ovary		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 1,2-5]		
* Thymus		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60936

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Lymphoma Malignant

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 317

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60937

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Eosinophilic Focus	
	Hepatocyte	Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 1-6]	Necrosis	Minimal
* Lymph Node, Mesenteric		Angiectasis	Moderate
	[Angiectasis TGLs = 3-12]	Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Ovary		Cystadenoma	
	[Cystadenoma TGLs = 2-8]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 317

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60937

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas

Infiltration Cellular

Lymphoid, Minimal

* Spleen

Hyperplasia

Lymphoid, Mild

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 318

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60938

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Islets, Pancreatic
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Harderian Gland		Adenoma	
* Intestine Large, Rectum		Inflammation	Minimal
* Intestine Small, Duodenum		Inflammation	Mild
* Intestine Small, Ileum		Inflammation	Minimal
* Intestine Small, Jejunum		Inflammation	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 1,2-5+12]		
* Nose		Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Inflammation	Chronic Active, Minimal
* Ovary		Cyst	
	[Cyst TGLs = 5-8]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hemangiosarcoma	
		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 318

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60938

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemangiosarcoma TGLs = 3,4-5+6]

[Hyperplasia TGLs = 3-5]

* Uterus

Endometrium

Hyperplasia
Inflammation

Cystic, Moderate
Chronic Active, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 319

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60939

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Bronchial

INSUFFICIENT TISSUE

- * Lymph Node, Mandibular
- * Ovary

OBSERVATIONS

- | | | | |
|------------------------|----------------------------------|-------------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Mild |
| * Liver | | Basophilic Focus | |
| | [Basophilic Focus TGLs = 1-12] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Hyperplasia | Lymphoid, Mild |
| * Stomach, Forestomach | | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 320

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Clitoral Gland	* Lymph Node, Mandibular	* Parathyroid Gland
------------------	--------------------------	---------------------

OBSERVATIONS

* Brain		Infiltration Cellular	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Hepatocellular Adenoma	
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Exudate	Minimal
		Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Skin		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 321

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone		Fibro-Osseous Lesion	
* Harderian Gland		Carcinoma	
[Carcinoma TGLs = 4-11]			
* Heart		Cardiomyopathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Clear Cell Focus	
		Cyst	
[Cyst TGLs = 2-12]			
* Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLs = 3-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 321

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60941

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Hyperplasia

Mild

* Spleen

Hyperplasia

Lymphoid, Moderate

* Thymus

Hyperplasia

Lymphoid, Mild

Animal Note: TGL 1=NCL (no correlating lesion)

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60942

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Mammary Gland	* Pancreas	* Salivary Glands
* Skin	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Harderian Gland		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Moderate
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 1-5]		
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Ovary		Inflammation	Chronic Active, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Forestomach		Hyperplasia	Mild
	[Hyperplasia TGLs = 2-9]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60942

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

Hyperplasia

Lymphoid, Minimal

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

Inflammation

Chronic Active, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 323

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60943

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Brain		Compression	Mild
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Ovary		Cyst	
	[Cyst TGLs = 2-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1-9]		
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 324

TRT#: 4

SEX: Female

DAY ON TEST: 580

DOSE: 10 mg/m3

DISP: Natural Death

HISTO: 60944

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum * Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
	[Pheochromocytoma Malignant TGLs = 1-6]		
* Kidney		Inflammation	Chronic Active, Minimal
		Pheochromocytoma Malignant	Metastatic (Adrenal Medulla)
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Inflammation	Chronic, Minimal
		Pheochromocytoma Malignant	Metastatic (Adrenal Medulla)
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Lung Pheochromocytoma Malignant Adrenal Medulla

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 325

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60945

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|---------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Bronchial | * Lymph Node, Mediastinal | * Mammary Gland |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|--------------------------|--------------------------------------|-------------------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Minimal |
| * Bone | | Fibro-Osseous Lesion | |
| * Kidney | | Hyperplasia | Lymphoid, Minimal |
| * Larynx | | Inflammation | Chronic Active, Mild |
| | Epiglottis | Metaplasia | Squamous, Moderate |
| * Liver | | Mixed Cell Focus | |
| * Lung | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphoid, Minimal |
| * Lymph Node, Mesenteric | | Angiectasis | Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Skin | Subcut Tiss | Fibrous Histiocytoma | |
| | [Fibrous Histiocytoma TGLs = 1-12] | | |
| * Spleen | | Hyperplasia | Lymphoid, Mild |
| * Stomach, Forestomach | | Cyst | Squamous |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60946

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[Eosinophilic Focus TGLs = 2-12]		
	[Hepatocellular Adenoma TGLs = 3-5]		
* Lung		Alveolar/Bronchiolar Adenoma	
	Alv/Bron Epith	Hyperplasia	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Thymus		Angiectasis	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60946

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 1-9]

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60947

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Ovary	* Pancreas
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Harderian Gland		Hyperplasia	Minimal
* Intestine Small, Ileum		Inflammation	Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Lymphoma Malignant	
Lymph Node	Lumbar	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
	Deep Cervical	Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 7-12]		
	[Lymphoma Malignant TGLs = 6-6]		
	[Lymphoma Malignant TGLs = 3-13]		
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 1-8]		
* Lymph Node, Mediastinal		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 2-3]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60947

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[Hyperplasia TGLs = 4-9]		
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 5-12]		
* Stomach, Glandular		Mineralization	Minimal
* Thymus		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 328

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60948

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Skin	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Histiocytic Sarcoma	
		Hypertrophy	Minimal
* Clitoral Gland		Histiocytic Sarcoma	
* Heart		Cardiomyopathy	Minimal
		Histiocytic Sarcoma	
* Intestine Large, Cecum		Histiocytic Sarcoma	
* Intestine Small, Duodenum		Histiocytic Sarcoma	
* Intestine Small, Ileum		Histiocytic Sarcoma	
* Kidney		Histiocytic Sarcoma	
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Histiocytic Sarcoma	
	Hepatocyte	Hypertrophy	Minimal
* Lung		Histiocytic Sarcoma	
Lymph Node	Lumbar	Angiectasis	Minimal
	Renal	Histiocytic Sarcoma	
	Lumbar	Histiocytic Sarcoma	
	[Angiectasis TGLs = 5-13]		
	[Histiocytic Sarcoma TGLs = 4-6]		
	[Histiocytic Sarcoma TGLs = 5-13]		
* Lymph Node, Bronchial		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 7-4]		
* Lymph Node, Mandibular		Histiocytic Sarcoma	
* Lymph Node, Mediastinal		Histiocytic Sarcoma	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 328

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60948

ORGAN AND ACCOUNTABLE SITE STATUS

	[Histiocytic Sarcoma TGLs = 1-3]		
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 6-7+14]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
* Ovary		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 3-15]		
* Pancreas		Atrophy	Mild
* Salivary Glands		Histiocytic Sarcoma	
Skeletal Muscle		Histiocytic Sarcoma	
* Spleen		Angiectasis	Mild
		Hematopoietic Cell Proliferation	Minimal
		Histiocytic Sarcoma	
	[Angiectasis TGLs = 2-12]		
	[Histiocytic Sarcoma TGLs = 2-12]		
* Stomach, Forestomach		Histiocytic Sarcoma	
* Stomach, Glandular		Histiocytic Sarcoma	
* Thymus		Histiocytic Sarcoma	
* Urinary Bladder		Histiocytic Sarcoma	
* Uterus		Angiectasis	Minimal
	Endometrium	Hyperplasia	Cystic, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 329

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60949

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Infarct	Chronic, Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 3-5]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[Alveolar/Bronchiolar Carcinoma TGLs = 2-4]		
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Ovary		Cystadenoma	
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Glandular		Mineralization	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
		Polyp Stromal	
	[Polyp Stromal TGLs = 1-12]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 330

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60950

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mediastinal
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular
-------------------------	--------------------------

OBSERVATIONS

* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Infarct	Chronic, Mild
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Eosinophilic Focus	
	[Hepatocellular Carcinoma TGLs = 1-12]	Hepatocellular Carcinoma	Multiple
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Ovary		Cyst	
	[Cyst TGLs = 2-8]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Ectopic Parathyroid Gland	Minimal
		Hyperplasia	Lymphoid, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 330

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60950

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Hyperplasia

Lymphoid, Mild

* Uterus

Angiectasis

Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 331

TRT#: 4

SEX: Female

DAY ON TEST: 721

DOSE: 10 mg/m3

DISP: Natural Death

HISTO: 60951

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Islets, Pancreatic	* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Mammary Gland	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Spleen		

OBSERVATIONS

* Intestine Small, Duodenum		Infiltration Cellular	Lymphoid, Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 3-6]		
* Lung		Hemorrhage	Minimal
	[Hemorrhage TGLs = 1-4]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Mild
	[Hyperkeratosis TGLs = 4-9]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 331

TRT#: 4

SEX: Female

DAY ON TEST: 721

DOSE: 10 mg/m3

DISP: Natural Death

HISTO: 60951

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 4-9]

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

Polyp Stromal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Animal Note: TGL 2 = NCL (no correlating lesion)

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 332

TRT#: 4

SEX: Female

DAY ON TEST: 365

DOSE: 10 mg/m3

DISP: Natural Death

HISTO: 60952

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|--------------------------|----------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Clitoral Gland |
| * Esophagus | * Eye | * Heart | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Ileum | * Islets, Pancreatic | * Lymph Node, Mediastinal |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Pituitary Gland

AUTO PRECLUDES DIAG.

- | | |
|-----------------------------|----------------------------|
| * Intestine Small, Duodenum | * Intestine Small, Jejunum |
|-----------------------------|----------------------------|

OBSERVATIONS

- | | | | |
|---------------------------------------|------------|-----------------------|----------------------|
| Blood Vessel | Aorta | Lymphoma Malignant | Metastatic (Spleen) |
| * Bone Marrow | | Lymphoma Malignant | |
| * Brain | | Lymphoma Malignant | |
| * Gallbladder | | Lymphoma Malignant | |
| * Harderian Gland | | Lymphoma Malignant | |
| * Intestine Large, Cecum | | Lymphoma Malignant | |
| * Kidney | | Lymphoma Malignant | |
| * Larynx | | Inflammation | Chronic Active, Mild |
| | Epiglottis | Metaplasia | Squamous, Moderate |
| * Liver | | Lymphoma Malignant | |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | | Lymphoma Malignant | |
| [Lymphoma Malignant TGLs = 6-12] | | | |
| Lymph Node | Lumbar | Lymphoma Malignant | |
| | | Lymphoma Malignant | |
| Note: TGL 5-13 is brachial lymph node | | | |
| [Lymphoma Malignant TGLs = 4-6] | | | |
| [Lymphoma Malignant TGLs = 5-13] | | | |
| * Lymph Node, Bronchial | | Lymphoma Malignant | |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 332

TRT#: 4

SEX: Female

DAY ON TEST: 365

DOSE: 10 mg/m3

DISP: Natural Death

HISTO: 60952

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Lymphoma Malignant	
[Lymphoma Malignant	TGLs = 2-8]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Mammary Gland		Lymphoma Malignant	Metastatic (Spleen)
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
		Lymphoma Malignant	
* Ovary	Periovarn Tiss	Lymphoma Malignant	
* Skin		Lymphoma Malignant	
[Lymphoma Malignant	TGLs = 1-13]		
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant	TGLs = 3-5]		
* Stomach, Forestomach		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Lung Lymphoma Malignant
 CONTRIBUTORY CAUSE OF DEATH - Lung Infiltration Cellular

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 333

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60953

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

OBSERVATIONS

* Heart		Inflammation	Chronic Active, Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Hyperplasia	Lymphoid, Minimal
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Adenoma	Multiple
		Ito Cell Tumor Benign	
	[Hepatocellular Adenoma TGLs = 4,5-5+6]		
	[Ito Cell Tumor Benign TGLs = 3-12]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 1-12]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
* Uterus		Hemangiosarcoma	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 333

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60953

ORGAN AND ACCOUNTABLE SITE STATUS

Endometrium

Hyperplasia
Inflammation

Cystic, Moderate
Chronic Active, Moderate

[Hyperplasia TGLs = 2-9]

[Inflammation TGLs = 2-9]

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 334

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60954

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|----------------------------|------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Jejunum | * Mammary Gland |
| * Parathyroid Gland | * Pituitary Gland | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Islets, Pancreatic

INSUFFICIENT TISSUE

- * Intestine Large, Rectum

OBSERVATIONS

- | | | | |
|-----------------------------|--|----------------------|-------------------------|
| * Bone | | Fibro-Osseous Lesion | |
| * Bone Marrow | | Histiocytic Sarcoma | |
| * Gallbladder | | Histiocytic Sarcoma | |
| * Heart | | Histiocytic Sarcoma | |
| * Intestine Small, Duodenum | | Inflammation | Minimal |
| * Intestine Small, Ileum | | Inflammation | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Mild |
| * Liver | | Clear Cell Focus | |
| | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 1,2,3-5+6] | | |
| * Lung | | Histiocytic Sarcoma | |
| Lymph Node | Pancreatic | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 5-5] | | |
| * Lymph Node, Bronchial | | Histiocytic Sarcoma | |
| * Lymph Node, Mandibular | | Histiocytic Sarcoma | |
| * Lymph Node, Mediastinal | | Histiocytic Sarcoma | |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 334

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60954

ORGAN AND ACCOUNTABLE SITE STATUS

[Histiocytic Sarcoma TGLs = 6-3]			
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
* Ovary		Histiocytic Sarcoma	
* Pancreas		Histiocytic Sarcoma	
* Salivary Glands		Histiocytic Sarcoma	
* Spleen		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLs = 4-5]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLs = 7-9]			

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 335

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60955

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|---------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Mammary Gland | * Skin |
| * Stomach, Forestomach | * Thyroid Gland | * Trachea | |

MISSING

- * Parathyroid Gland

INSUFFICIENT TISSUE

- * Lymph Node, Bronchial

OBSERVATIONS

- | | | | |
|-----------------------------|----------------------------|-------------------------------|-------------------------|
| * Intestine Small, Duodenum | | Lymphoma Malignant | |
| * Intestine Small, Ileum | | Lymphoma Malignant | |
| * Kidney | | Lymphoma Malignant | |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Mild |
| * Liver | | Lymphoma Malignant | |
| | | Tension Lipidosis | Minimal |
| * Lung | | Lymphoma Malignant | |
| * Lymph Node, Mediastinal | | Lymphoma Malignant | |
| * Lymph Node, Mesenteric | | Lymphoma Malignant | |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | | Exudate | Minimal |
| | Respirat Epith | Hyperplasia | Mild |
| * Ovary | | Cystadenoma | |
| | [Cystadenoma TGLs = 1-8] | | |
| * Pancreas | | Lymphoma Malignant | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 335

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60955

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
* Stomach, Glandular		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 336

TRT#: 4

SEX: Female

DAY ON TEST: 688

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60956

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Skin	* Trachea		

OBSERVATIONS

* Adrenal Cortex		Histiocytic Sarcoma	
* Bone Marrow		Atrophy	Mild
* Gallbladder		Histiocytic Sarcoma	
* Heart		Histiocytic Sarcoma	
* Intestine Large, Colon		Histiocytic Sarcoma	
* Islets, Pancreatic		Histiocytic Sarcoma	Metastatic (Spleen)
* Kidney		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 13-6]		
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 7,8,9,10,15-5+12+13+14]		
* Lung		Histiocytic Sarcoma	
Lymph Node	Pancreatic	Histiocytic Sarcoma	
	Renal	Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 5,6-5+6]		
	[Histiocytic Sarcoma TGLs = 11-6]		
* Lymph Node, Bronchial		Histiocytic Sarcoma	
* Lymph Node, Mandibular		Histiocytic Sarcoma	
* Lymph Node, Mediastinal		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 2-3]		
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 14-13]		
Mesentery		Histiocytic Sarcoma	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 336

TRT#: 4

SEX: Female

DAY ON TEST: 688

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60956

ORGAN AND ACCOUNTABLE SITE STATUS

	[Histiocytic Sarcoma TGLs = 12-12]		
* Nose		Olfactory Epi	Accumulation, Hyaline Droplet
		Respirat Epith	Accumulation, Hyaline Droplet
		Respirat Epith	Hyperplasia
			Inflammation
* Ovary			Histiocytic Sarcoma
	[Histiocytic Sarcoma TGLs = 3-8]		
* Pancreas			Histiocytic Sarcoma
* Pituitary Gland		Pars Distalis	Angiectasis
* Spleen			Histiocytic Sarcoma
	[Histiocytic Sarcoma TGLs = 4-5]		
* Stomach, Forestomach			Histiocytic Sarcoma
			Hyperplasia
* Stomach, Glandular			Histiocytic Sarcoma
* Thymus			Histiocytic Sarcoma
	[Histiocytic Sarcoma TGLs = 1-3]		
* Thyroid Gland			Cyst
* Urinary Bladder			Histiocytic Sarcoma
* Uterus			Histiocytic Sarcoma

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 337

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60957

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLs = 2-12]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 1,3-6+12]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 338

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60958

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Brain		Infiltration Cellular	Lymphocyte, Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 3-12]		
Lymph Node	Lumbar	Angiectasis	Mild
	[Angiectasis TGLs = 2-6]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 1-12]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Forestomach		Hyperplasia	Minimal
* Thymus		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 339

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60959

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Intestine Small, Duodenum		Hyperplasia	Lymphoid, Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 340

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60960

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 3-5]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alv/Bron Epith	Hyperplasia	Minimal
	[Alveolar/Bronchiolar Carcinoma TGLs = 2-4]	Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 1-6]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
* Ovary		Cyst	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 340

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60960

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Glandular		Cyst	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 341

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60961

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Intestine Small, Ileum		Hyperplasia	Lymphoid, Moderate
* Kidney		Infarct	Chronic, Minimal
		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	[Hepatocellular Adenoma TGLs = 3-12]		
	[Hepatocellular Carcinoma TGLs = 1,2-5+6]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hyperplasia	Lymphoid, Minimal
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 342

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60962

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Skin	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Lymphoma Malignant	
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Lymphoma Malignant	
Lymph Node	Lumbar	Lymphoma Malignant	
[Lymphoma Malignant	TGLs = 1-6]		
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
[Lymphoma Malignant	TGLs = 2-3]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
* Stomach, Forestomach		Lymphoma Malignant	
* Stomach, Glandular		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 342

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60962

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60963

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	Peripheral Nerve	* Pituitary Gland	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Bronchial	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibro-Osseous Lesion	
* Harderian Gland		Lymphoma Malignant	
* Heart		Lymphoma Malignant	
* Intestine Small, Ileum		Lymphoma Malignant	
* Islets, Pancreatic		Lymphoma Malignant	Metastatic (Spleen)
* Kidney		Lymphoma Malignant	
		Metaplasia	Osseous, Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
Lymph Node	Renal	Lymphoma Malignant	
	Lumbar	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
	[Lymphoma Malignant	TGLs = 6-6]	
	[Lymphoma Malignant	TGLs = 7-12]	
	[Lymphoma Malignant	TGLs = 3-14]	
* Lymph Node, Mandibular		Lymphoma Malignant	
	[Lymphoma Malignant	TGLs = 1-8]	
* Lymph Node, Mediastinal		Lymphoma Malignant	
	[Lymphoma Malignant	TGLs = 5-3]	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60963

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Lymphoma Malignant	
* Mammary Gland		Lymphoma Malignant	Metastatic (Spleen)
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Lateral Wall	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Moderate
* Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
Skeletal Muscle		Lymphoma Malignant	
* Skin	Subcut Tiss	Schwannoma Malignant	
	[Schwannoma Malignant TGLs = 8-13]		
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 2-5]		
* Thymus		Lymphoma Malignant	
Tooth		Dysplasia	Marked
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 344

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60964

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Uterus

OBSERVATIONS

* Heart		Inflammation	Chronic Active, Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Lung		Lymphoma Malignant	
Lymph Node	Lumbar	Angiectasis	Mild
	Lumbar	Lymphoma Malignant	
	[Angiectasis TGLs = 4-6]		
	[Lymphoma Malignant TGLs = 4-6]		
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
* Ovary		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Skin		Inflammation	Chronic Active, Mild
		Ulcer	Mild
	[Inflammation TGLs = 1-8]		
	[Ulcer TGLs = 1-8]		
* Spleen		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 344

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60964

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus	Ectopic Parathyroid Gland	Minimal
* Thyroid Gland	Lymphoma Malignant	Chronic Active, Minimal
* Urinary Bladder	Inflammation	
[Lymphoma Malignant TGLs = 2-9]	Lymphoma Malignant	

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 345

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60965

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart		Inflammation	Chronic Active, Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Eosinophilic Focus	
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Ovary		Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 346

TRT#: 4

SEX: Female

DAY ON TEST: 619

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60966

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland
* Salivary Glands	Skeletal Muscle	* Skin	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mesenteric

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Fatty Change	Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Glands	Hyperplasia	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 347

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60967

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Lung |
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|----------------------|--|-------------------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Moderate |
| * Liver | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | | Tension Lipidosis | Minimal |
| | [Eosinophilic Focus TGLs = 3,6-6+12] | | |
| | [Hepatocellular Adenoma TGLs = 4,5-5+13] | | |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| * Ovary | | Cyst | |
| | [Cyst TGLs = 2-8] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 1-5] | | |
| * Stomach, Glandular | | Inflammation | Chronic Active, Minimal |
| * Uterus | | Polyp Stromal | |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 348

TRT#: 4

SEX: Female

DAY ON TEST: 647

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60968

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Gallbladder	* Parathyroid Gland
---------------	---------------------

OBSERVATIONS

* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alv/Bron Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic, Mild
	[Alveolar/Bronchiolar Carcinoma TGLs = 1-4]		
* Lymph Node, Mediastinal		Hyperplasia	Plasma Cell, Moderate
* Mammary Gland		Dilatation	Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 3-6]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Atrophy	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
	Respirat Epith	Necrosis	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 348

TRT#: 4

SEX: Female

DAY ON TEST: 647

DOSE: 10 mg/m3

DISP: Moribund Sacrifice

HISTO: 60968

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-9]			
* Stomach, Forestomach		Hyperkeratosis	Moderate
		Inflammation	Chronic Active, Mild
		Ulcer	Minimal
[Hyperkeratosis TGLs = 4-9]			
Urethra		Inflammation	Chronic Active, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Lung Infiltration Cellular

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 349

TRT#: 4

SEX: Female

DAY ON TEST: 581

DOSE: 10 mg/m3

DISP: Natural Death

HISTO: 60969

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Tension Lipidosis	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 350

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 mg/m3

DISP: Terminal Sacrifice

HISTO: 60970

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 501

TRT#: 6

SEX: Female

DAY ON TEST: 637

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Gallbladder

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone		Hemangiosarcoma	Metastatic (Spleen)
* Bone Marrow		Hemangiosarcoma	Metastatic (Spleen)
* Harderian Gland		Hyperplasia	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Moderate
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Spleen		Hemangiosarcoma	
	[Hemangiosarcoma TGLs = 4-5]		
* Thymus		Ectopic Parathyroid Gland	Minimal
* Trachea	Cartilage	Metaplasia	Osseous, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLs = 2,3-9]		

PRIMARY CAUSE OF DEATH - Spleen Hemangiosarcoma

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 502

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mediastinal	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Kidney		Lymphoma Malignant	
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Lymphoma Malignant	
	[Hepatocellular Adenoma TGLs = 3,4,5-5+12+13]		
	[Hepatocellular Carcinoma TGLs = 6-6]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
		Inflammation	Chronic, Minimal
	[Alveolar/Bronchiolar Carcinoma TGLs = 1-4]		
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 502

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60822

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Exudate Hyperplasia Inflammation	Minimal Mild Chronic Active, Minimal
* Ovary		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 2-5]		
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 503

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone Marrow |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Mammary Gland | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|---------------------------|------------------------------------|----------------------|----------------------|
| * Bone | | Fibro-Osseous Lesion | |
| * Brain | | Lymphoma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Lymphoma Malignant | |
| * Larynx | | Inflammation | Chronic Active, Mild |
| | Epiglottis | Metaplasia | Squamous, Marked |
| * Liver | | Eosinophilic Focus | |
| | [Eosinophilic Focus TGLs = 2-12] | | |
| * Lung | | Lymphoma Malignant | |
| Lymph Node | Pancreatic | Lymphoma Malignant | |
| | Deep Cervical | Lymphoma Malignant | |
| | Renal | Lymphoma Malignant | |
| | Lumbar | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 10-5] | | |
| | [Lymphoma Malignant TGLs = 1-13] | | |
| | [Lymphoma Malignant TGLs = 6-15] | | |
| | [Lymphoma Malignant TGLs = 7-16] | | |
| * Lymph Node, Bronchial | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 8-4] | | |
| * Lymph Node, Mandibular | | Lymphoma Malignant | |
| * Lymph Node, Mediastinal | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 9-3] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 503

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60823

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric Mesentery [Necrosis TGLs = 5-14]	Fat	Lymphoma Malignant Necrosis	Minimal
* Nose	Olfactory Epi Respirat Epith Respirat Epith	Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet Atrophy	Mild Mild Minimal
	Respirat Epith	Exudate Hyperplasia Inflammation	Marked Minimal Chronic Active, Mild
* Ovary	Nasopharyn Dct	Perforation Cyst Lymphoma Malignant	
[Cyst TGLs = 4-8]			
* Pancreas		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis Pars Distalis	Angiectasis Hyperplasia	Minimal Minimal
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLs = 3-5]			
* Thymus		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia Lymphoma Malignant	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 504

TRT#: 6

SEX: Female

DAY ON TEST: 619

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Gallbladder
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Pituitary Gland	* Skin

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant	
* Adrenal Medulla		Lymphoma Malignant	
Blood Vessel	Aorta	Lymphoma Malignant	
* Bone Marrow		Lymphoma Malignant	
* Brain		Lymphoma Malignant	
* Eye		Lymphoma Malignant	
* Harderian Gland		Lymphoma Malignant	
* Heart		Lymphoma Malignant	
* Intestine Large, Cecum		Lymphoma Malignant	
* Intestine Large, Colon		Lymphoma Malignant	
* Intestine Large, Rectum		Lymphoma Malignant	
* Intestine Small, Duodenum		Lymphoma Malignant	
* Islets, Pancreatic		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Lymphoma Malignant	
		Metaplasia	Squamous, Marked
* Liver		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 5,6-5+12]		
* Lung		Lymphoma Malignant	
Lymph Node	Renal	Lymphoma Malignant	
	Lumbar	Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 8-6]		
	[Lymphoma Malignant TGLs = 9-13]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 504

TRT#: 6

SEX: Female

DAY ON TEST: 619

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60824

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 2-8]		
* Lymph Node, Mediastinal		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 7-3]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Mammary Gland		Lymphoma Malignant	
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
* Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Angiectasis	Mild
		Lymphoma Malignant	
	[Angiectasis TGLs = 4-12]		
	[Lymphoma Malignant TGLs = 3-5]		
* Stomach, Forestomach		Lymphoma Malignant	
* Stomach, Glandular		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Thyroid Gland		Lymphoma Malignant	
* Trachea		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 504

TRT#: 6

SEX: Female

DAY ON TEST: 619

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60824

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant
CONTRIBUTORY CAUSE OF DEATH - Liver Lymphoma Malignant
- Lung Lymphoma Malignant

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 505

TRT#: 6

SEX: Female

DAY ON TEST: 715

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Heart	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Spleen

INSUFFICIENT TISSUE

* Intestine Large, Rectum * Lymph Node, Mesenteric

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Islets, Pancreatic		Adenoma	
[Adenoma TGLs = 4-12]			
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Fatty Change	Moderate
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Pancreas		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 505

TRT#: 6

SEX: Female

DAY ON TEST: 715

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60825

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Minimal

* Uterus

Hemorrhage

Mild

Endometrium

Hyperplasia

Cystic, Mild

Inflammation

Chronic Active, Minimal

Polyp Stromal

[Hemorrhage TGLs = 5-13]

PRIMARY CAUSE OF DEATH - Islets, Pancreatic Adenoma

Animal Note: TGL 3 = NCL (No Corresponding Lesion)

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 506

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	
* Heart		Cardiomyopathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 1-6]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Forestomach		Inflammation	Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 506

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60826

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 507

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Clitoral Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Intestine Large, Colon	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone		Fibro-Osseous Lesion	
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
Lymph Node	Lumbar	Angiectasis	Mild
[Angiectasis TGLs = 1-12]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 507

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60827

ORGAN AND ACCOUNTABLE SITE STATUS

	Turbinate	Inflammation	Chronic Active, Minimal
	Nasopharyn Dct	Perforation	
* Skin		Perforation	
* Spleen		Inflammation	Chronic Active, Minimal
* Uterus	Endometrium	Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Cystic, Mild
		Polyp Stromal	

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 508

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60828

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Hypertrophy	Minimal
* Gallbladder		Histiocytic Sarcoma	
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Histiocytic Sarcoma	
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Histiocytic Sarcoma	
	[Hepatocellular Adenoma TGLs = 9-12]		
* Lung		Histiocytic Sarcoma	
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Iliac	Angiectasis	Mild
	Renal	Angiectasis	Moderate
	Iliac	Histiocytic Sarcoma	
	Renal	Histiocytic Sarcoma	
	[Angiectasis TGLs = 4-6]		
	[Angiectasis TGLs = 6,7-12+13]		
	[Histiocytic Sarcoma TGLs = 4,8-6+14]		
	[Histiocytic Sarcoma TGLs = 6,7-12+13]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 508

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60828

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial		Histiocytic Sarcoma	
* Lymph Node, Mandibular		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 1-8]		
* Lymph Node, Mediastinal		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 2-3]		
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 10-7]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Ovary		Cyst	
		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 3-8]		
* Pancreas		Histiocytic Sarcoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 5-5]		
* Thymus		Histiocytic Sarcoma	
* Urinary Bladder		Histiocytic Sarcoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 509

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Harderian Gland		Hyperplasia	Minimal
* Kidney		Metaplasia	Osseous, Mild
		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 2-5]		
Lymph Node	Renal	Hyperplasia	Lymphoid, Marked
	[Hyperplasia TGLs = 1-12]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Necrosis	Minimal
	Turbinate	Perforation	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 509

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60829

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Nasopharyn Dct Pars Distalis	Perforation Hyperplasia	Mild
* Spleen		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 510

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60830

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Gallbladder	* Lymph Node, Bronchial
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Necrosis	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 511

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone		Fibro-Osseous Lesion	
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Brain		Infiltration Cellular	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Mild
	[Basophilic Focus TGLs = 6-5]		
	[Hepatocellular Adenoma TGLs = 5-5]		
	[Inflammation TGLs = 7,8-12+13]		
* Lung		Alveolar/Bronchiolar Adenoma	
	Alv/Bron Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
	[Alveolar/Bronchiolar Adenoma TGLs = 4-4]		
* Lymph Node, Bronchial		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 511

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60831

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
	Nasolacrim Dct	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal
* Ovary		Inflammation	Chronic Active, Marked
	[Inflammation TGLs = 1,2-8]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLs = 3-5]		
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Polyp Stromal	

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 512

TRT#: 6

SEX: Female

DAY ON TEST: 722

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum
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OBSERVATIONS

* Larynx	Epiglottis	Hyperplasia Inflammation Metaplasia	Squamous, Minimal Chronic Active, Minimal Squamous, Moderate
* Liver	Epiglottis	Lymphoma Malignant	
* Lung		Lymphoma Malignant	
[Lymphoma Malignant TGLs = 5-4]			
Lymph Node	Pancreatic	Lymphoma Malignant	
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
[Lymphoma Malignant TGLs = 4-3]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLs = 7,10-7+14]			
* Mammary Gland		Adenoma Lymphoma Malignant	Metastatic (Lymph Node, Mesenteric)
[Adenoma TGLs = 9-13]			
[Lymphoma Malignant TGLs = 1-12]			
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 512

TRT#: 6

SEX: Female

DAY ON TEST: 722

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60832

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Nasopharyn Dct	Perforation	
	Turbinate	Perforation	
* Ovary		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6-9]		
* Skin		Edema	Mild
	[Edema TGLs = 1-12]		
* Thymus		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 3-3]		
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLs = 8-6]		

PRIMARY CAUSE OF DEATH - Lymph Node, Mesenteric Lymphoma Malignant

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 513

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60833

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLs = 1-5]		
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Mild
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Necrosis	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus		Angiectasis	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 513

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60833

ORGAN AND ACCOUNTABLE SITE STATUS

Endometrium

Hyperplasia

Cystic, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 514

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hypertrophy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Moderate
* Lung		Alveolar/Bronchiolar Carcinoma	
		Inflammation	Chronic, Minimal
	[Alveolar/Bronchiolar Carcinoma		
* Lymph Node, Bronchial	TGLs = 1-12]	Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 515

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

INSUFFICIENT TISSUE

* Clitoral Gland	* Intestine Large, Rectum
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Lung		Inflammation	Chronic, Minimal
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Ovary		Cyst	
[Cyst TGLs = 1-8]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 516

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60836

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Harderian Gland		Adenoma	
* Intestine Small, Ileum		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 2-6]		
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Lymphoma Malignant	
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Nose		Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Respirat Epith	Atrophy	Minimal
	Turbinate	Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
	Respirat Epith	Inflammation	Chronic Active, Mild
	Nasopharyn Dct	Necrosis	Minimal
		Perforation	
* Skin		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 516

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60836

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Lymphoma Malignant

[Lymphoma Malignant TGLs = 1-5]

* Urinary Bladder

Lymphoma Malignant

* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 517

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Eosinophilic Focus	
	[Eosinophilic Focus TGLs = 1-5]		
* Lung	Alv/Bron Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 517

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60837

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hyperplasia	Lymphoid, Moderate
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Polyp Stromal	

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 518

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Eye		Inflammation	Chronic Active, Mild
	[Inflammation TGLs = 1-11]		
* Harderian Gland		Carcinoma	
	[Carcinoma TGLs = 2-11]		
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 518

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60838

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 519

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mediastinal

INSUFFICIENT TISSUE

- * Lymph Node, Bronchial

OBSERVATIONS

- | | | | |
|--------------------------|----------------|-------------------------------|----------------------|
| * Bone | | Fibro-Osseous Lesion | |
| * Kidney | | Infarct | Chronic, Mild |
| | | Nephropathy | Minimal |
| * Larynx | Epiglottis | Hyperplasia | Squamous, Minimal |
| | | Inflammation | Chronic Active, Mild |
| | Epiglottis | Metaplasia | Squamous, Marked |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphoid, Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Atrophy | Minimal |
| | | Exudate | Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 519

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60839

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Minimal
[Adenoma TGLs = 1-9]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 520

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60840

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mediastinal	* Mammary Gland	* Salivary Glands	* Stomach, Forestomach
* Trachea			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Harderian Gland		Adenoma	
		Lymphoma Malignant	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Lymphoma Malignant	
* Intestine Small, Ileum		Lymphoma Malignant	
* Kidney		Infarct	Chronic, Mild
		Lymphoma Malignant	
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Lymphoma Malignant	
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Turbinat	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 520

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60840

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Necrosis	Minimal
	Turbinate	Perforation	
	Nasopharyn Dct	Perforation	
* Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
* Stomach, Glandular		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 521

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60841

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Ovary		Cystadenoma	
	[Cystadenoma TGLs = 2-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1-9]		
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 521

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60841

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 522

TRT#: 6

SEX: Female

DAY ON TEST: 493

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60842

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|-------------------|------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

AUTO PRECLUDES DIAG.

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Lymph Node, Mesenteric | * Pancreas | * Spleen |
| * Stomach, Glandular | | | |

OBSERVATIONS

- | | | | |
|-------------------------|----------------|-------------------------------|-------------------------|
| * Larynx | Epiglottis | Hyperplasia | Squamous, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Marked |
| * Lung | Mediastinum | Necrosis | Mild |
| * Lymph Node, Bronchial | | Inflammation | Suppurative, Mild |
| * Nose | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Atrophy | Minimal |
| | | Exudate | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Respirat Epith | Necrosis | Minimal |
| | Nasopharyn Dct | Perforation | |
| * Ovary | | Congestion | Minimal |

[Congestion TGLs = 1-8]

PRIMARY CAUSE OF DEATH - Lung Mediastinum Necrosis

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 523

TRT#: 6

SEX: Female

DAY ON TEST: 675

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60843

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 7-12]		
* Mammary Gland		Carcinoma	
	[Carcinoma TGLs = 5-12]	Hyperplasia	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Necrosis	Minimal
	Turbinat	Perforation	
	Nasopharyn Dct	Perforation	
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
		Hyperplasia	Granulocytic, Marked
	[Hematopoietic Cell Proliferation TGLs = 3-5]		
* Thymus		Atrophy	Mild
* Thyroid Gland		Inflammation	Suppurative, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Intestine Small, Jejunum Lymphoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 524

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60844

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|---------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lymph Node, Mediastinal | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|----------------|-------------------------------|-------------------------|
| * Harderian Gland | | Cyst | |
| [Cyst TGLs = 1-11] | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Infarct | Chronic, Minimal |
| * Larynx | | Inflammation | Chronic Active, Mild |
| | Epiglottis | Metaplasia | Squamous, Mild |
| * Lung | | Fibrosis | Minimal |
| | | Inflammation | Chronic, Mild |
| * Lymph Node, Bronchial | | Hyperplasia | Lymphoid, Mild |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Minimal |
| Mesentery | Fat | Necrosis | Moderate |
| [Necrosis TGLs = 2-12] | | | |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Turbinate | Atrophy | Minimal |
| | Respirat Epith | Atrophy | Minimal |
| | | Exudate | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Respirat Epith | Necrosis | Minimal |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 524

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60844

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary	Nasopharyn Dct	Perforation	
	Turbinate	Perforation	
		Cyst	
[Cyst TGLs = 3-8]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
* Stomach, Glandular		Cyst	
* Thymus		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 525

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60845

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Brain		Compression	Mild
* Kidney		Infarct	Chronic, Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 5-6]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Minimal
		Proteinosis	Mild
	[Alveolar/Bronchiolar Carcinoma TGLs = 4-4]		
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLs = 1-3]		
* Nose		Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Respirat Epith	Atrophy	Minimal
	Turbinate	Exudate	Mild
		Hyperplasia	Minimal
	Respirat Epith	Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 525

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60845

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLs = 2-9]	Nasopharyn Dct Pars Distalis	Perforation Adenoma	
* Thymus		Hyperplasia	Lymphoid, Mild
* Uterus [Adenoma TGLs = 3-9]	Endometrium	Adenoma	

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 526

TRT#: 6

SEX: Female

DAY ON TEST: 198

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60846

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Kidney		Amyloid Deposition	Marked
		Inflammation	Chronic Active, Minimal
		Nephropathy	Marked
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Lung	Alv/Bron Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 526

TRT#: 6

SEX: Female

DAY ON TEST: 198

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60846

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Kidney Amyloid Deposition

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 527

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60847

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Mammary Gland	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	
* Brain		Infiltration Cellular	Minimal
* Kidney		Infarct	Chronic, Minimal
		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Carcinoma	Multiple
	[Hepatocellular Carcinoma TGLs = 1,2-5]		
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
* Pancreas		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 527

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60847

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Ectopic Parathyroid Gland

Minimal

Hyperplasia

Lymphoid, Minimal

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 528

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60848

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Lymphoma Malignant	
* Intestine Small, Duodenum		Lymphoma Malignant	
* Intestine Small, Ileum		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Eosinophilic Focus	
* Lung		Hemorrhage	Mild
	Alv/Bron Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
		Lymphoma Malignant	
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Atrophy	Minimal
	Respirat Epith	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 528

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60848

ORGAN AND ACCOUNTABLE SITE STATUS

	Turbinate	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4-9]		
* Spleen		Angiectasis	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 1,2-5+6]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLs = 3-9]		

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 529

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60849

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	
* Intestine Small, Jejunum		Histiocytic Sarcoma	
* Kidney		Histiocytic Sarcoma	
		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Angiectasis	Minimal
		Clear Cell Focus	
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alv/Bron Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
	[Alveolar/Bronchiolar Carcinoma	TGLs = 3-12]	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 529

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60849

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Inflammation	Chronic Active, Minimal
* Salivary Glands		Hyperplasia	Minimal
* Skin		Mast Cell Tumor Benign	
* Spleen		Inflammation	Chronic Active, Minimal
	[Histiocytic Sarcoma TGLs = 2-5]	Histiocytic Sarcoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 530

TRT#: 6

SEX: Female

DAY ON TEST: 655

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60850

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver	Hepatocyte	Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 4-6]	Necrosis	Marked
	[Necrosis TGLs = 2,3-5+6+12]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Skin		Schwannoma Malignant	
	[Schwannoma Malignant TGLs = 1-13]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 530

TRT#: 6

SEX: Female

DAY ON TEST: 655

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60850

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Liver Hepatocyte Necrosis

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 531

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60851

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Eosinophilic Focus	
	[Eosinophilic Focus TGLs = 2-12]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Minimal
	[Alveolar/Bronchiolar Carcinoma TGLs = 1-4]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 531

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60851

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 532

TRT#: 6

SEX: Female

DAY ON TEST: 649

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60852

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-------------------------|--------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Islets, Pancreatic | * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- * Clitoral Gland

AUTO PRECLUDES DIAG.

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | | | |

OBSERVATIONS

- | | | | |
|----------|--|----------------------------------|-------------------------|
| * Kidney | | Nephropathy | Mild |
| * Larynx | Epiglottis | Hyperplasia | Squamous, Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Marked |
| * Liver | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | Multiple |
| | [Hepatocellular Adenoma TGLs = 3-12] | | |
| | [Hepatocellular Carcinoma TGLs = 1-13] | | |
| * Lung | | Inflammation | Chronic, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | | Exudate | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 532

TRT#: 6

SEX: Female

DAY ON TEST: 649

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60852

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLs = 4-5]

* Thymus

Atrophy

Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Animal Note: TGL 2 = NCL (No Corresponding Lesion)

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 533

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
| * Mammary Gland | * Ovary | * Pancreas | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---------------------------|----------------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| | | Hypertrophy | Minimal |
| * Bone | | Fibro-Osseous Lesion | |
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Moderate |
| * Lung | | Alveolar/Bronchiolar Carcinoma | Multiple |
| | | Infiltration Cellular | Histiocyte, Minimal |
| | [Alveolar/Bronchiolar Carcinoma | TGLs = 1,2-4+12] | |
| * Lymph Node, Mediastinal | | Hyperplasia | Lymphoid, Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Exudate | Minimal |
| | | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Hyperplasia | Lymphoid, Minimal |
| * Uterus | | Angiectasis | Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 533

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60853

ORGAN AND ACCOUNTABLE SITE STATUS

Endometrium

Hyperplasia
Inflammation

Cystic, Moderate
Chronic Active, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 534

TRT#: 6

SEX: Female

DAY ON TEST: 716

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60854

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	Skeletal Muscle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Eye	Cornea	Hyperplasia	Minimal
	[Hyperplasia TGLs = 1-11]		
* Harderian Gland		Adenoma	
	[Adenoma TGLs = 2-11]		
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Skin	Subcut Tiss	Hemangiosarcoma	
	[Hemangiosarcoma TGLs = 3-12]		
* Spleen		Hematopoietic Cell Proliferation	Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 534

TRT#: 6

SEX: Female

DAY ON TEST: 716

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60854

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLs = 4-5]

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Hemangiosarcoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 535

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60855

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mediastinal

INSUFFICIENT TISSUE

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------------|----------------|-------------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Minimal |
| * Heart | | Inflammation | Chronic Active, Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lymph Node, Bronchial | | Hyperplasia | Lymphoid, Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | | Exudate | Minimal |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Ovary | | Cyst | |
| | | Inflammation | Chronic Active, Marked |

[Inflammation TGLs = 1-8]

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 535

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60855

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Cyst	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 536

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60856

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	
* Heart		Cardiomyopathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Ovary		Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLs = 1-5]		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 537

TRT#: 6

SEX: Female

DAY ON TEST: 707

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60857

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Eye	* Harderian Gland	* Intestine Large, Rectum
* Intestine Small, Jejunum	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
		Lymphoma Malignant	
* Bone		Fibro-Osseous Lesion	
* Esophagus		Lymphoma Malignant	
* Gallbladder		Lymphoma Malignant	
* Heart		Lymphoma Malignant	
		Mineralization	Minimal
		Necrosis	Minimal
* Intestine Large, Cecum		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 9-6]		
* Intestine Large, Colon		Lymphoma Malignant	
* Intestine Small, Duodenum		Lymphoma Malignant	
* Intestine Small, Ileum		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 10-8]		
* Islets, Pancreatic		Lymphoma Malignant	Metastatic (Spleen)
* Kidney		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 11-6]		
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Moderate
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 5-5+12]		
* Lung	Alveolar Epith	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 537

TRT#: 6

SEX: Female

DAY ON TEST: 707

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60857

ORGAN AND ACCOUNTABLE SITE STATUS

Infiltration Cellular
 Lymphoma Malignant
 Histiocyte, Mild

[Hyperplasia TGLs = 14-13]

[Lymphoma Malignant TGLs = 13,14-4+13]

Lymph Node

Renal

Lymphoma Malignant

Axillary

Lymphoma Malignant

Lumbar

Lymphoma Malignant

[Lymphoma Malignant TGLs = 12-6]

[Lymphoma Malignant TGLs = 8-14]

[Lymphoma Malignant TGLs = 7-13]

* Lymph Node, Bronchial

Lymphoma Malignant

* Lymph Node, Mandibular

Lymphoma Malignant

* Lymph Node, Mediastinal

Lymphoma Malignant

[Lymphoma Malignant TGLs = 3-3]

* Lymph Node, Mesenteric

Lymphoma Malignant

[Lymphoma Malignant TGLs = 6-7]

* Mammary Gland

Lymphoma Malignant

Metastatic (Spleen)

[Lymphoma Malignant TGLs = 1-8]

* Nose

Olfactory Epi

Accumulation, Hyaline Droplet

Mild

Respirat Epith

Accumulation, Hyaline Droplet

Mild

Exudate

Minimal

Respirat Epith

Hyperplasia

Mild

Nasolacrim Dct

Inflammation

Chronic Active, Mild

Inflammation

Chronic Active, Minimal

* Ovary

Lymphoma Malignant

* Pancreas

Lymphoma Malignant

* Spleen

Lymphoma Malignant

[Lymphoma Malignant TGLs = 4-5]

* Stomach, Forestomach

Hyperkeratosis

Minimal

Hyperplasia

Minimal

Inflammation

Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 537

TRT#: 6

SEX: Female

DAY ON TEST: 707

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60857

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Lymphoma Malignant	
* Thyroid Gland		Ulcer	Minimal
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Lymphoma Malignant	
		Hyperplasia	Cystic, Minimal
		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 538

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60858

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone Marrow |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Mammary Gland | * Pancreas | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---------------------------|---------------------------------------|-------------------------------|-------------------------|
| * Bone | | Fibro-Osseous Lesion | |
| * Brain | | Lymphoma Malignant | |
| * Gallbladder | | Lymphoma Malignant | |
| * Kidney | | Metaplasia | Osseous, Mild |
| | | Nephropathy | Mild |
| | [Metaplasia TGLs = 3-6] | | |
| * Larynx | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Mild |
| * Liver | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | |
| | [Hepatocellular Adenoma TGLs = 1-6] | Lymphoma Malignant | |
| * Lung | | Lymphoma Malignant | |
| | | Mineralization | Minimal |
| * Lymph Node, Bronchial | | Lymphoma Malignant | |
| * Lymph Node, Mediastinal | | Lymphoma Malignant | |
| * Lymph Node, Mesenteric | | Lymphoma Malignant | |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | | Exudate | Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 538

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60858

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Hyperplasia Inflammation	Mild Chronic Active, Minimal
* Ovary		Cyst	
* Spleen		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[Hyperplasia TGLs = 2-9]

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 539

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60859

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Trachea |

INSUFFICIENT TISSUE

- | | |
|-------------------------|----------|
| * Lymph Node, Bronchial | * Thymus |
|-------------------------|----------|

OBSERVATIONS

- | | | | |
|--------------------------|--|---------------------|-------------------------|
| * Bone Marrow | | Histiocytic Sarcoma | |
| * Heart | | Histiocytic Sarcoma | |
| * Intestine Small, Ileum | | Histiocytic Sarcoma | |
| * Kidney | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 5-6] | | |
| * Larynx | Epiglottis | Hyperplasia | Squamous, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Marked |
| * Liver | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 6,7,8,9-5+6+12+13] | | |
| * Lung | | Histiocytic Sarcoma | |
| Lymph Node | | Histiocytic Sarcoma | |
| | | Pigmentation | Minimal |
| | Note: TGL 10-14 is sciatic lymph node | | |
| | [Histiocytic Sarcoma TGLs = 10-14] | | |
| | [Pigmentation TGLs = 10-14] | | |
| * Lymph Node, Mesenteric | | Histiocytic Sarcoma | |
| Mesentery | | Histiocytic Sarcoma | |
| | Fat | Necrosis | Mild |
| | [Histiocytic Sarcoma TGLs = 3-12] | | |
| | [Necrosis TGLs = 3-12] | | |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 539

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60859

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
		Histiocytic Sarcoma	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Ovary		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 2-8]		
* Pancreas		Histiocytic Sarcoma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLs = 4-5]		
* Stomach, Glandular		Histiocytic Sarcoma	
* Thyroid Gland		Cyst	
* Urinary Bladder		Histiocytic Sarcoma	
* Uterus		Histiocytic Sarcoma	
		Inflammation	Chronic Active, Minimal
	[Histiocytic Sarcoma TGLs = 1-13]		

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 540

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60860

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow		Lymphoma Malignant	
* Gallbladder		Lymphoma Malignant	
* Harderian Gland		Carcinoma	
* Heart		Lymphoma Malignant	
* Intestine Small, Ileum		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Necrosis	Minimal
* Ovary		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 540

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60860

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1-9]		
* Skin		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 2-5]		
* Stomach, Glandular		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Thyroid Gland		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Lymphoma Malignant	

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 541

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60861

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Brain		Infiltration Cellular	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Lymphoma Malignant	
* Lung	Alv/Bron Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Angiectasis	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Ovary		Cyst	
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 1-5]		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 542

TRT#: 6

SEX: Female

DAY ON TEST: 480

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60862

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Salivary Glands	Skeletal Muscle	* Skin
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Heart		Inflammation Necrosis	Suppurative, Mild Mild
Note: Myriads of bacteria are associated with the cardiac inflammation			
* Larynx	Epiglottis	Inflammation Metaplasia	Chronic Active, Mild Squamous, Moderate
* Lung		Hemorrhage	Mild
* Nose	Olfactory Epi Respirat Epith	Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Mild Mild
	Respirat Epith	Exudate Hyperplasia	Minimal Mild
* Spleen		Inflammation	Chronic Active, Minimal
* Thymus		Inflammation	Suppurative, Minimal
* Trachea	Epithelium	Atrophy Hyperplasia	Minimal Minimal
* Urinary Bladder		Angiectasis	Minimal
[Angiectasis TGLs = 1-9]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Heart Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 542

TRT#: 6

SEX: Female

DAY ON TEST: 480

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60862

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH - Heart Necrosis

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 543

TRT#: 6

SEX: Female

DAY ON TEST: 709

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60863

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder	

MISSING

* Pituitary Gland	* Thymus
-------------------	----------

INSUFFICIENT TISSUE

* Ovary

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Brain		Demyelination	Mild
	Meninges	Infiltration Cellular	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Small, Duodenum		Inflammation	Minimal
		Necrosis	Minimal
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Carcinoma	
	Hepatocyte	Hypertrophy	Moderate
	[Hepatocellular Carcinoma TGLs = 2,3-6+12]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 543

TRT#: 6

SEX: Female

DAY ON TEST: 709

DOSE: 30 mg/m3

DISP: Moribund Sacrifice

HISTO: 60863

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
	[Hematopoietic Cell Proliferation TGLs = 1-5]		
* Trachea	Cartilage	Metaplasia	Osseous, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	- Liver	Hepatocellular Carcinoma	

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 544

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60864

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLs = 1-5]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Mild
	Turbinate	Atrophy	Minimal
		Exudate	Marked
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
* Ovary		Cyst	
	[Cyst TGLs = 2-8]		
* Pancreas	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 544

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60864

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hyperplasia	Lymphoid, Minimal
* Thymus		Ectopic Parathyroid Gland	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 545

TRT#: 6

SEX: Female

DAY ON TEST: 725

DOSE: 30 mg/m3

DISP: Natural Death

HISTO: 60865

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|---------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

AUTO PRECLUDES DIAG.

- * Intestine Small, Duodenum

OBSERVATIONS

- | | | | |
|----------|--|-------------------------------|-------------------------|
| * Bone | | Fibro-Osseous Lesion | |
| * Kidney | | Nephropathy | Moderate |
| * Larynx | Epiglottis | Hyperplasia | Squamous, Moderate |
| | Epiglottis | Inflammation | Chronic Active, Minimal |
| * Liver | | Metaplasia | Squamous, Marked |
| | Hepatocyte | Hepatocellular Carcinoma | |
| | [Hepatocellular Carcinoma TGLs = 3-12] | Necrosis | Mild |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Atrophy | Minimal |
| | | Exudate | Mild |
| * Ovary | | Inflammation | Chronic Active, Minimal |
| | [Cystadenoma TGLs = 2-8] | Cystadenoma | |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 546

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Lymph Node, Mesenteric | * Mammary Gland | * Ovary | * Pancreas |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---------------------------|---------------------------------------|-------------------------------|----------------------|
| * Larynx | | Inflammation | Chronic Active, Mild |
| | Epiglottis | Metaplasia | Squamous, Marked |
| * Liver | [Hepatocellular Adenoma TGLs = 2-5] | Hepatocellular Adenoma | |
| * Lung | Alv/Bron Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| Lymph Node | Renal | Lymphoma Malignant | |
| | Lumbar | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 3-12] | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 4-13] | | |
| * Lymph Node, Bronchial | | Lymphoma Malignant | |
| * Lymph Node, Mandibular | | Lymphoma Malignant | |
| * Lymph Node, Mediastinal | | Lymphoma Malignant | |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Atrophy | Minimal |
| | | Exudate | Mild |
| | Respirat Epith | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 546

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60866

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Minimal
	[Lymphoma Malignant TGLs = 1-5]	Lymphoma Malignant	
* Thymus		Ectopic Parathyroid Gland	Minimal
		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 547

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hemangiosarcoma	
		Hyperplasia	Lymphoid, Minimal
	[Hemangiosarcoma TGLs = 1-5]		
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 548

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Gallbladder		Vacuolization Cytoplasmic	Mild
* Heart		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLs = 2-5]		
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Exudate	Minimal
		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Ectopic Parathyroid Gland	Minimal
		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 548

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60868

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

Polyp Stromal

[Polyp Stromal TGLs = 1-9]

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 549

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Harderian Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Basophilic Focus	
	[Basophilic Focus TGLs = 2-12]		
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Angiectasis	Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 3-13]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thymus		Hyperplasia	Lymphoid, Mild
* Uterus		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 549

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60869

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLs = 1-9]	Endometrium	Hyperplasia	Cystic, Marked
[Hyperplasia TGLs = 1-9]			

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 550

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 60870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Heart		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 1-12]		
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Spleen		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 701

TRT#: 8

SEX: Female

DAY ON TEST: 715

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Spleen			

INSUFFICIENT TISSUE

* Lymph Node, Mesenteric

OBSERVATIONS

* Harderian Gland		Adenoma	
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Moderate
	Epiglottis	Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	
	Hepatocyte	Hepatocellular Carcinoma	Multiple
	[Hepatocellular Adenoma TGLs = 6-6]	Necrosis	Marked
	[Hepatocellular Carcinoma TGLs = 2,3,4-5+12]		
	[Necrosis TGLs = 2,3,4,6-5+6+12]		
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 701

TRT#: 8

SEX: Female

DAY ON TEST: 715

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60721

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Chronic, Moderate
* Lymph Node, Bronchial		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mediastinal		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 7-3]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Marked
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Ovary		Cyst	
	[Cyst TGLs = 1-8]		
* Thymus		Atrophy	Mild
* Trachea	Epithelium	Hyperplasia	Minimal
	Cartilage	Metaplasia	Osseous, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocyte Necrosis

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 702

TRT#: 8

SEX: Female

DAY ON TEST: 513

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60722

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
[Alveolar/Bronchiolar Carcinoma	TGLs = 2-16]		
* Kidney		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
[Alveolar/Bronchiolar Carcinoma	TGLs = 6,7,8,9-6+14+15+16]		
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
	Epiglottis	Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
* Liver		Mixed Cell Focus	
[Mixed Cell Focus	TGLs = 3-5]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
[Alveolar/Bronchiolar Carcinoma	TGLs = 1-4]		
Lymph Node	Axillary	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	Renal	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
[Alveolar/Bronchiolar Carcinoma	TGLs = 12-17]		
[Alveolar/Bronchiolar Carcinoma	TGLs = 5-6]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 702

TRT#: 8

SEX: Female

DAY ON TEST: 513

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60722

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Lymph Node, Mediastinal		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Mammary Gland		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Ovary		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Skeletal Muscle		Sarcoma	
	[Sarcoma TGLs = 13-13]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular		Inflammation	Chronic Active, Mild
	[Inflammation TGLs = 14-18]		
* Thymus		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma
 CONTRIBUTORY CAUSE OF DEATH - Heart Alveolar/Bronchiolar Carcinoma Lung

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 703

TRT#: 8

SEX: Female

DAY ON TEST: 668

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	Peripheral Nerve
* Pituitary Gland	* Salivary Glands	Skeletal Muscle	* Skin
Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone		Fibro-Osseous Lesion	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Alveolar/Bronchiolar Adenoma	
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
	Olfactory Epi	Atrophy	Minimal
		Exudate	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 703

TRT#: 8

SEX: Female

DAY ON TEST: 668

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60723

ORGAN AND ACCOUNTABLE SITE STATUS

Respirat Epith

Hyperplasia

Minimal

Inflammation

Chronic Active, Mild

Olfactory Epi

Metaplasia

Respiratory, Minimal

Respirat Epith

Necrosis

Minimal

Nasopharyn Dct

Perforation

Atrophy

Minimal

* Thymus

* Trachea

Epithelium

Hyperplasia

Minimal

* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 704

TRT#: 8

SEX: Female

DAY ON TEST: 645

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60724

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Thyroid Gland	* Trachea		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Histiocytic Sarcoma	
Blood Vessel	Aorta	Histiocytic Sarcoma	Metastatic (Spleen)
* Gallbladder		Histiocytic Sarcoma	
* Heart		Histiocytic Sarcoma	
* Kidney		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 4,5,6-6+12]		
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Histiocytic Sarcoma	
* Lung		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 1-4]		
* Lymph Node, Bronchial		Histiocytic Sarcoma	
* Lymph Node, Mandibular		Histiocytic Sarcoma	
* Lymph Node, Mediastinal		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 2-3]		
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 7-7]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 704

TRT#: 8

SEX: Female

DAY ON TEST: 645

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60724

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary		Histiocytic Sarcoma	
* Pancreas		Histiocytic Sarcoma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Histiocytic Sarcoma	
* Skin		Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Spleen		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 3-5]		
* Stomach, Forestomach		Histiocytic Sarcoma	
		Hyperkeratosis	Minimal
		Hyperplasia	Mild
* Stomach, Glandular		Histiocytic Sarcoma	
* Thymus		Histiocytic Sarcoma	
* Urinary Bladder		Histiocytic Sarcoma	
* Uterus		Histiocytic Sarcoma	

PRIMARY CAUSE OF DEATH - Kidney Histiocytic Sarcoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 705

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60725

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder		

MISSING

* Clitoral Gland	* Lymph Node, Mandibular	* Parathyroid Gland
------------------	--------------------------	---------------------

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Harderian Gland		Carcinoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Turbinate	Atrophy	Minimal
	Respirat Epith	Atrophy	Minimal
		Exudate	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 705

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60725

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
	Turbinate	Perforation	
* Thymus		Hyperplasia	Lymphoid, Mild
* Trachea	Epithelium	Hyperplasia	Mild
		Pigmentation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 706

TRT#: 8

SEX: Female

DAY ON TEST: 557

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

MISSING

* Parathyroid Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver	Hepatocyte	Degeneration	Mild
		Eosinophilic Focus	
		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLs = 2-6]		
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 706

TRT#: 8

SEX: Female

DAY ON TEST: 557

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60726

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
	Pars Distalis	Adenoma	
* Pituitary Gland		Hyperplasia	Lymphoid, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Hyperplasia	Cystic, Minimal
* Uterus	Endometrium	Hyperplasia	
PRIMARY CAUSE OF DEATH	- Liver	Hepatocellular Carcinoma	

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 707

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Pituitary Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|---------------------------------|-------------------------------|----------------------|
| * Harderian Gland | | Adenoma | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Larynx | Epiglottis | Hyperplasia | Squamous, Minimal |
| | | Inflammation | Chronic Active, Mild |
| | Epiglottis | Metaplasia | Squamous, Marked |
| * Liver | | Basophilic Focus | |
| | [Basophilic Focus TGLs = 1-5] | | |
| * Lung | | Fibrosis | Minimal |
| | Alv/Bron Epith | Hyperplasia | Moderate |
| | Alveolar Epith | Hyperplasia | Mild |
| | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Chronic, Moderate |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Atrophy | Minimal |
| | | Exudate | Mild |
| | Respirat Epith | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 707

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60727

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary		Inflammation	Chronic Active, Minimal
[Cyst TGLs = 3-8]		Cyst	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[Polyp Stromal TGLs = 2-9]		Polyp Stromal	

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 708

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	Multiple
		Lymphoma Malignant	
	[Hepatocellular Adenoma TGLs = 1,2-5+13]		
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
		Alveolar/Bronchiolar Carcinoma	Multiple
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
	[Alveolar/Bronchiolar Carcinoma TGLs = 3,4-4+12]		
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 708

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60728

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hypertrophy	Mild
* Spleen		Lymphoma Malignant	
* Thymus		Hyperplasia	Lymphoid, Moderate
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 709

TRT#: 8

SEX: Female

DAY ON TEST: 661

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Harderian Gland		Carcinoma	
[Carcinoma TGLs = 2-10]			
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
	Epiglottis	Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLs = 10-5]			
* Lung		Carcinoma	Metastatic (Harderian Gland)
		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic, Moderate
[Carcinoma TGLs = 3,4,5,6,7,8-4+6]			
* Lymph Node, Bronchial		Carcinoma	Metastatic (Harderian Gland)
[Carcinoma TGLs = 9-4]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLs = 1-8]			
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 709

TRT#: 8

SEX: Female

DAY ON TEST: 661

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60729

ORGAN AND ACCOUNTABLE SITE STATUS

	Carcinoma	Metastatic (Harderian Gland)
	Exudate	Moderate
Respirat Epith	Hyperplasia	Mild
	Inflammation	Chronic Active, Minimal
* Ovary	Cyst	
* Spleen	Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLs = 11-5]		
* Uterus	Endometrium	Cystic, Moderate

PRIMARY CAUSE OF DEATH - Harderian Gland Carcinoma
CONTRIBUTORY CAUSE OF DEATH - Lung Carcinoma Harderian Gland

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 710

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60730

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Skin	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Lymphoma Malignant	
* Brain		Lymphoma Malignant	
* Gallbladder		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	Multiple
		Lymphoma Malignant	
	[Hepatocellular Adenoma TGLs = 4,5-5]		
* Lung	Alv/Bron Epith	Hyperplasia	Minimal
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
		Lymphoma Malignant	
		Metaplasia	Osseous, Minimal
Lymph Node	Pancreatic	Hemangiosarcoma	
	Pancreatic	Lymphoma Malignant	
	Lumbar	Lymphoma Malignant	
	[Hemangiosarcoma TGLs = 3-5]		
	[Lymphoma Malignant TGLs = 6-12]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 710

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60730

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 2-3]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Turbinat	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 7-9]		
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
* Stomach, Forestomach		Hyperplasia	Minimal
* Stomach, Glandular		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 711

TRT#: 8

SEX: Female

DAY ON TEST: 725

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60731

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | | | |

OBSERVATIONS

- | | | | |
|------------------|--|--------------------------------|-------------------------|
| * Adrenal Cortex | | Histiocytic Sarcoma | |
| | | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | |
| * Bone Marrow | | Histiocytic Sarcoma | |
| | | Necrosis | Minimal |
| * Brain | Meninges | Histiocytic Sarcoma | |
| * Gallbladder | | Histiocytic Sarcoma | |
| * Heart | | Histiocytic Sarcoma | |
| * Kidney | | Histiocytic Sarcoma | |
| | | Nephropathy | Mild |
| * Larynx | Epiglottis | Hyperplasia | Squamous, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | Epiglottis | Metaplasia | Squamous, Marked |
| * Liver | | Hepatocellular Carcinoma | |
| | | Histiocytic Sarcoma | |
| | [Hepatocellular Carcinoma TGLs = 9-6] | | |
| | [Histiocytic Sarcoma TGLs = 7,8,9,10,11-5+6+12+13] | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| | | Histiocytic Sarcoma | |
| | Alv/Bron Epith | Hyperplasia | Moderate |
| | Alveolar Epith | Hyperplasia | Moderate |
| | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 711

TRT#: 8

SEX: Female

DAY ON TEST: 725

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60731

ORGAN AND ACCOUNTABLE SITE STATUS

[Alveolar/Bronchiolar Carcinoma	TGLs = 3-4]		
[Histiocytic Sarcoma	TGLs = 2,3-4]		
Lymph Node	Lumbar	Histiocytic Sarcoma	
[Histiocytic Sarcoma	TGLs = 12-12]		
* Lymph Node, Bronchial		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Histiocytic Sarcoma	
* Lymph Node, Mandibular		Histiocytic Sarcoma	
* Lymph Node, Mediastinal		Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
* Mammary Gland		Histiocytic Sarcoma	Metastatic (Spleen)
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Mild
	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
* Ovary	Periovarn Tiss	Histiocytic Sarcoma	
* Pancreas		Histiocytic Sarcoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Histiocytic Sarcoma	
[Histiocytic Sarcoma	TGLs = 6-5]		
* Thymus		Histiocytic Sarcoma	
* Urinary Bladder		Histiocytic Sarcoma	
* Uterus		Histiocytic Sarcoma	
		Inflammation	Chronic Active, Moderate
		Necrosis	Marked
[Histiocytic Sarcoma	TGLs = 5-13]		
[Necrosis	TGLs = 4-9]		

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 712

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60732

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pigmentation	Minimal
* Harderian Gland		Adenoma	
	[Adenoma TGLs = 1-11]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Marked
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Ovary		Granulosa Cell Tumor Benign	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 712

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60732

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Inflammation	Chronic Active, Minimal
* Thymus		Angiectasis	Minimal
* Uterus		Angiectasis	Mild
	Endometrium	Hyperplasia	Cystic, Mild
		Inflammation	Chronic Active, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 713

TRT#: 8

SEX: Female

DAY ON TEST: 694

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60733

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Esophagus	* Lymph Node, Bronchial
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OBSERVATIONS

* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
		Necrosis	Minimal
* Liver		Basophilic Focus	
		Hepatocellular Carcinoma	
	Hepatocyte	Necrosis	Marked
[Hepatocellular Carcinoma	TGLs = 4-12]		
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 2-6]			
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Respirat Epith	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 713

TRT#: 8

SEX: Female

DAY ON TEST: 694

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60733

ORGAN AND ACCOUNTABLE SITE STATUS

	Turbinate	Atrophy	Minimal
		Exudate	Marked
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Ovary		Cyst	
	[Cyst TGLs = 3-8]		
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Ectopic Parathyroid Gland	Minimal
		Necrosis	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocyte Necrosis

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 714

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60734

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
	Coron Artery	Thrombosis	Minimal
* Kidney		Angiectasis	Minimal
		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLs = 1-12]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Minimal
		Hepatocellular Carcinoma	Metastatic (Liver)
	Alv/Bron Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 714

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60734

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Hyperplasia	Lymphoid, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 715

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60735

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Minimal
* Bone		Fibro-Osseous Lesion	
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
Mesentery		Hemangioma	
	[Hemangioma TGLs = 2-13]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 715

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60735

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Schwannoma Benign	
	[Schwannoma Benign TGLs = 1-12]		
* Spleen		Hyperplasia	Lymphoid, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 716

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60736

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Mammary Gland	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Eye	Cornea	Hyperplasia Inflammation Carcinoma	Mild Chronic Active, Moderate
* Harderian Gland	[Carcinoma TGLs = 4-11]		
* Heart		Inflammation	Chronic Active, Mild
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia Inflammation	Squamous, Minimal Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver	[Hepatocellular Adenoma TGLs = 2-6]	Hepatocellular Adenoma	
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
* Lymph Node, Bronchial	[Hyperplasia TGLs = 3-4]	Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 716

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60736

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
		Infiltration Cellular	Lymphoid, Minimal
* Pancreas			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[Hyperplasia TGLs = 1-9]		

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 717

TRT#: 8

SEX: Female

DAY ON TEST: 612

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60737

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------------|---------------------------------------|-------------------------------|----------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Larynx | Epiglottis | Hyperplasia | Squamous, Mild |
| | | Inflammation | Chronic Active, Mild |
| * Lung | Epiglottis | Metaplasia | Squamous, Marked |
| | | Fibrosis | Mild |
| | Alv/Bron Epith | Hyperplasia | Moderate |
| | Alveolar Epith | Hyperplasia | Mild |
| | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Chronic, Moderate |
| Lymph Node | Lumbar | Infiltration Cellular | Plasma Cell, Mild |
| | Renal | Infiltration Cellular | Plasma Cell, Mild |
| | [Infiltration Cellular TGLs = 4-6] | | |
| | [Infiltration Cellular TGLs = 5-12] | | |
| * Lymph Node, Bronchial | | Hyperplasia | Lymphoid, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Atrophy | Minimal |
| | | Exudate | Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 717

TRT#: 8

SEX: Female

DAY ON TEST: 612

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60737

ORGAN AND ACCOUNTABLE SITE STATUS

	Goblet Cell	Hyperplasia	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin		Inflammation	Chronic Active, Marked
		Necrosis	Marked
	[Inflammation TGLs = 1-12]		
	[Necrosis TGLs = 1-12]		
* Spleen		Hematopoietic Cell Proliferation	Mild
	[Hematopoietic Cell Proliferation TGLs = 2-5]		
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[Hyperplasia TGLs = 3-9]		

PRIMARY CAUSE OF DEATH - Skin Necrosis

CONTRIBUTORY CAUSE OF DEATH - Skin Inflammation

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 718

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60738

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Brain		Compression	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver	Hepatocyte	Necrosis	Minimal
* Lung		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	

[Carcinoma TGLs = 1-12]

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 718

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60738

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hyperplasia

Lymphoid, Minimal

* Thymus

Ectopic Parathyroid Gland

Minimal

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 719

TRT#: 8

SEX: Female

DAY ON TEST: 163

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60739

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	Ear
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	Skeletal Muscle	* Skin	Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Esophagus	Periesoph Tiss	Inflammation	Chronic Active, Mild
* Heart		Inflammation	Chronic Active, Moderate
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Mild
* Lung	Epiglottis	Metaplasia	Squamous, Marked
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
Lymph Node	Artery, Renal	Inflammation	Chronic Active, Moderate
	Artery, Lumbar	Inflammation	Chronic Active, Moderate
	[Inflammation TGLs = 1-6]		
	[Inflammation TGLs = 2-12]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 719

TRT#: 8

SEX: Female

DAY ON TEST: 163

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60739

ORGAN AND ACCOUNTABLE SITE STATUS

Peripheral Nerve	Respirat Epith	Hyperplasia	Minimal
* Uterus	Endometrium	Degeneration	Minimal
		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Heart Inflammation

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 720

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60740

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone Marrow	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland

MISSING

* Clitoral Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibro-Osseous Lesion	
* Brain		Lymphoma Malignant	
* Heart		Inflammation	Chronic Active, Moderate
* Kidney		Lymphoma Malignant	
		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	
		Lymphoma Malignant	
	[Hepatocellular Adenoma TGLs = 2-5]		
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
		Lymphoma Malignant	
* Lymph Node, Bronchial		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 3-12]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 720

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60740

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Ovary		Angiectasis	Mild
		Cyst	
	[Angiectasis TGLs = 1-8]		
* Pancreas		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Inflammation	Chronic Active, Minimal
* Spleen		Lymphoma Malignant	
* Thymus		Cyst	Minimal
* Trachea	Epithelium	Hyperplasia	Mild
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Inflammation	Chronic Active, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 721

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
		Hypertrophy	Minimal
* Bone		Fibro-Osseous Lesion	
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Eosinophilic Focus	
		Hepatocellular Carcinoma	Multiple
	[Eosinophilic Focus TGLs = 6-12]		
	[Hepatocellular Carcinoma TGLs = 4,5-6+13]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 2-14]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 721

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60741

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Marked
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
* Ovary		Cystadenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Minimal
[Hematopoietic Cell Proliferation	TGLs = 3-5]		
* Uterus		Angiectasis	Minimal
	Endometrium	Hyperplasia	Cystic, Moderate
[Hyperplasia	TGLs = 1-9]		

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 722

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Mammary Gland	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Trachea		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Heart		Lymphoma Malignant	
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Basophilic Focus	
		Lymphoma Malignant	
* Lung		Alveolar/Bronchiolar Adenoma	
		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic, Moderate
		Lymphoma Malignant	
		Metaplasia	Squamous, Minimal
		Pigmentation	Minimal
	[Alveolar/Bronchiolar Adenoma TGLs = 2-12]		
* Lymph Node, Mediastinal		Pigmentation	Mild
* Lymph Node, Mesenteric		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 723

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibro-Osseous Lesion	
* Harderian Gland		Carcinoma	
[Carcinoma TGLs = 1-11]			
* Larynx	Epiglottis	Hyperplasia Inflammation	Squamous, Minimal Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Clear Cell Focus	
* Lung		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Respirat Epith	Atrophy	Minimal
	Turbinat	Atrophy	Minimal
		Exudate	Marked

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 723

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60743

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Hyperplasia Inflammation	Minimal Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Cyst	
		Hyperplasia	Lymphoid, Minimal
* Urinary Bladder		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 724

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibro-Osseous Lesion	
* Heart		Cardiomyopathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Olfactory Epi	Atrophy	Minimal
		Exudate	Marked
	Respirat Epith	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 724

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60744

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary		Inflammation	Chronic Active, Mild
* Pancreas		Cystadenoma	
* Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
[Adenoma TGLs = 1-9]		Adenoma	
* Thymus		Cyst	
		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland		Inflammation	Chronic Active, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 725

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60745

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver	Hepatocyte	Necrosis	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
	[Alveolar/Bronchiolar Carcinoma		
	[Inflammation TGLs = 2-12]		
Lymph Node	TGLs = 3-13]		
Note: TGL 1-14 is sciatic lymph node			
[Pigmentation TGLs = 1-14]			
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 725

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60745

ORGAN AND ACCOUNTABLE SITE STATUS

	Turbinate	Atrophy	Minimal
		Exudate	Marked
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
* Skin		Inflammation	Chronic Active, Mild
* Spleen		Hyperplasia	Lymphoid, Minimal
* Thymus		Ectopic Parathyroid Gland	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 726

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Carcinoma	
	[Carcinoma TGLs = 3-13]		
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Carcinoma	Metastatic (Islets, Pancreatic)
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 1-5]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
	[Alveolar/Bronchiolar Carcinoma TGLs = 4-12]		
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Marked
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 726

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60746

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Atrophy	Minimal
		Exudate	Marked
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
* Pancreas		Hypertrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

[Hyperplasia TGLs = 2-9]

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 727

TRT#: 8

SEX: Female

DAY ON TEST: 673

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Mammary Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Blood Vessel	Aorta	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Heart		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
		Necrosis	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma	TGLs = 9-14]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Fibrosis	Minimal
		Hepatocellular Carcinoma	Metastatic (Liver)
	Alveolar Epith	Hyperplasia	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
[Alveolar/Bronchiolar Carcinoma	TGLs = 2,3-4+6]		
[Hepatocellular Carcinoma	TGLs = 2,4,5,6,7-4+6+12+13]		
* Lymph Node, Bronchial		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 727

TRT#: 8

SEX: Female

DAY ON TEST: 673

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60747

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mediastinal		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Lymph Node, Mesenteric		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Mesentery		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[Alveolar/Bronchiolar Carcinoma TGLs = 10-15]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
* Ovary	Periovarn Tiss	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Pancreas		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Skeletal Muscle		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[Alveolar/Bronchiolar Carcinoma TGLs = 8-13]		
* Stomach, Forestomach		Hyperkeratosis	Mild
		Inflammation	Chronic Active, Minimal
		Ulcer	Mild
	[Hyperkeratosis TGLs = 11-9+16]		
	[Inflammation TGLs = 11-9+16]		
	[Ulcer TGLs = 11-9+16]		
* Thymus		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Uterus		Hemangioma	

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma
 CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 728

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Skin	* Stomach, Forestomach	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant	
* Bone Marrow		Lymphoma Malignant	
* Gallbladder		Lymphoma Malignant	
* Harderian Gland		Lymphoma Malignant	
* Heart		Lymphoma Malignant	
* Intestine Small, Ileum		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 9-6]		
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Lymphoma Malignant	
* Lung		Infiltration Cellular	Histiocyte, Mild
		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 6-4]		
Lymph Node	Lumbar	Angiectasis	Mild
	Renal	Angiectasis	Minimal
	Renal	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
	Lumbar	Lymphoma Malignant	
	Renal	Necrosis	Moderate
	[Lymphoma Malignant TGLs = 7,8-12+13]		
	[Lymphoma Malignant TGLs = 3-14]		
	[Lymphoma Malignant TGLs = 10-16]		

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 728

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60748

ORGAN AND ACCOUNTABLE SITE STATUS

	[Necrosis TGLs = 7-12]		
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 1-8]		
* Lymph Node, Mediastinal		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 4-3]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 12-15]		
* Mammary Gland		Lymphoma Malignant	Metastatic (Spleen)
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
* Ovary		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 5-8]		
* Pancreas		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	[Angiectasis TGLs = 11-9]		
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 2-14]		
* Stomach, Glandular		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Thyroid Gland		Lymphoma Malignant	
* Trachea		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 729

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Heart		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Necrosis	Minimal
	[Necrosis TGLs = 2,3-12+13]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic, Moderate
	[Alveolar/Bronchiolar Carcinoma TGLs = 1-4]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Marked
	Respirat Epith	Atrophy	Mild
	Olfactory Epi	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 729

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60749

ORGAN AND ACCOUNTABLE SITE STATUS

	Turbinate	Atrophy	Minimal
		Exudate	Marked
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Turbinate	Perforation	
	Nasopharyn Dct	Perforation	
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Inflammation	Chronic Active, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 730

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Brain		Compression	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Small, Ileum		Hyperplasia	Plasma Cell, Marked
[Hyperplasia TGLs = 5-13]			
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Moderate
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Alveolar/Bronchiolar Adenoma	
		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic, Moderate
	Alveolar Epith	Metaplasia	Squamous, Mild
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 2-12]			

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 730

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60750

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Marked
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 7-9]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLs = 1-5]		
* Thymus		Angiectasis	Mild
		Cyst	
		Hyperplasia	Lymphoid, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[Hyperplasia TGLs = 3-9]		

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 731

TRT#: 8

SEX: Female

DAY ON TEST: 698

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60751

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder		

MISSING

* Gallbladder	* Lymph Node, Mandibular
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INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	
* Bone Marrow		Necrosis	Mild
* Heart	Endocardium	Schwannoma Malignant	
* Kidney		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Nephropathy	Minimal
		Schwannoma Malignant	Metastatic (Heart)
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLs = 7,8,9,10,12-5+6+13]		
	[Hepatocellular Carcinoma TGLs = 11-12]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 731

TRT#: 8

SEX: Female

DAY ON TEST: 698

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60751

ORGAN AND ACCOUNTABLE SITE STATUS

	Alveolar Epith	Hyperplasia Infiltration Cellular Inflammation	Minimal Histiocyte, Mild Chronic, Mild
	[Alveolar/Bronchiolar Carcinoma TGLs = 1,3,4-4] [Hyperplasia TGLs = 2-4]		
* Lymph Node, Bronchial		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Lymph Node, Mediastinal		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[Alveolar/Bronchiolar Carcinoma TGLs = 5-3]		
Mesentery		Schwannoma Malignant	Metastatic (Heart)
	[Schwannoma Malignant TGLs = 6-6]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Marked
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
	Turbinate	Perforation	
* Pancreas		Hypertrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Trachea	Epithelium	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma
 CONTRIBUTORY CAUSE OF DEATH - Heart Endocardium Schwannoma Malignant
 - Lung Alveolar/Bronchiolar Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 732

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic, Moderate
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Respirat Epith	Atrophy	Minimal
	Turbinat	Atrophy	Minimal
		Exudate	Marked
	Goblet Cell	Hyperplasia	Minimal
	Respirat Epith	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 732

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60752

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Inflammation	Chronic Active, Mild
	Nasopharyn Dct	Necrosis	Minimal
* Ovary		Perforation	
	[Cystadenoma TGLs = 2-8]	Cystadenoma	
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 733

TRT#: 8

SEX: Female

DAY ON TEST: 319

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone	Mandible	Fibrosarcoma	
	[Fibrosarcoma TGLs = 1-12]		
* Harderian Gland		Hyperplasia	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver	Hepatocyte	Degeneration	Minimal
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Marked
	Respirat Epith	Atrophy	Minimal
		Exudate	Marked
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 733

TRT#: 8

SEX: Female

DAY ON TEST: 319

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60753

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Respirat Epith	Necrosis	Minimal
* Uterus	Endometrium	Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Bone Mandible Fibrosarcoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 734

TRT#: 8

SEX: Female

DAY ON TEST: 681

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60754

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	

OBSERVATIONS

* Heart		Inflammation	Chronic Active, Marked
		Necrosis	Marked
		Thrombosis	Marked
* Larynx	Epiglottis	Hyperplasia	Squamous, Moderate
	Epiglottis	Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Marked
* Liver	Hepatocyte	Hepatocellular Adenoma	
		Hypertrophy	Minimal
		Inflammation	Chronic Active, Minimal
	[Hepatocellular Adenoma TGLs = 2-5]		
	[Hypertrophy TGLs = 3-12]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Chronic, Moderate
* Lymph Node, Bronchial		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 1-6]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 734

TRT#: 8

SEX: Female

DAY ON TEST: 681

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60754

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Exudate	Moderate
		Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Spleen		Inflammation	Suppurative, Mild
		Necrosis	Lymphoid, Mild
* Trachea	Cartilage	Metaplasia	Osseous, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH - Heart Inflammation

CONTRIBUTORY CAUSE OF DEATH - Heart Necrosis

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 735

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60755

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Minimal
* Kidney		Nephropathy	Minimal
		Pigmentation	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Eosinophilic Focus	
	[Eosinophilic Focus TGLs = 1-12]		
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic, Mild
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Mild
	Turbinate	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 735

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60755

ORGAN AND ACCOUNTABLE SITE STATUS

	Olfactory Epi	Atrophy	Minimal
		Exudate	Marked
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
	Turbinate	Perforation	
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thymus		Hyperplasia	Lymphoid, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Inflammation	Chronic Active, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 736

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60756

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
	Epiglottis	Inflammation	Chronic Active, Mild
* Liver		Metaplasia	Squamous, Marked
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[Eosinophilic Focus TGLs = 3-5]		
	[Hepatocellular Adenoma TGLs = 2-12]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic, Moderate
	[Alveolar/Bronchiolar Carcinoma TGLs = 4-4]		
* Lymph Node, Bronchial	Plasma Cell	Hyperplasia	Minimal
		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 736

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60756

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin	Subcut Tiss	Fibrous Histiocytoma	
	[Fibrous Histiocytoma TGLs = 1-12]		
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 737

TRT#: 8

SEX: Female

DAY ON TEST: 645

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60757

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder

MISSING

* Lymph Node, Bronchial

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Harderian Gland		Adenoma	
* Kidney		Lymphoma Malignant	
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Minimal
	Epiglottis	Metaplasia	Squamous, Marked
		Necrosis	Minimal
* Liver		Lymphoma Malignant	
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 737

TRT#: 8

SEX: Female

DAY ON TEST: 645

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60757

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 1-5]		
* Thymus		Cyst	
		Ectopic Parathyroid Gland	Minimal
* Trachea	Epithelium	Degeneration	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLs = 2-9]		

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 738

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60758

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland	* Thyroid Gland
--------------------------	---------------------	-----------------

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	[Eosinophilic Focus TGLs = 2-13]		
	[Hepatocellular Adenoma TGLs = 3,4,5-5+6]		
* Lung		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
	[Hyperplasia TGLs = 1-12]		
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 738

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60758

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Ovary		Angiectasis	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 739

TRT#: 8

SEX: Female

DAY ON TEST: 572

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60759

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|--------------------------|----------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Ileum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Mammary Gland | * Ovary | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Urinary Bladder | | | |

MISSING

- * Parathyroid Gland

AUTO PRECLUDES DIAG.

- | | | | |
|---------------|--------------------------|-----------------------------|----------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Jejunum |
| * Trachea | | | |

OBSERVATIONS

- | | | | |
|---------------------------|---|------------------------|----------------------|
| * Kidney | | Lymphoma Malignant | |
| * Larynx | Epiglottis | Hyperplasia | Squamous, Mild |
| | | Inflammation | Chronic Active, Mild |
| | Epiglottis | Metaplasia | Squamous, Marked |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | [Hepatocellular Adenoma TGLs = 3,4-12+13] | | |
| * Lung | | Fibrosis | Mild |
| | Alv/Bron Epith | Hyperplasia | Moderate |
| | Alveolar Epith | Hyperplasia | Mild |
| | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Chronic, Mild |
| | | Lymphoma Malignant | |
| Lymph Node | Renal | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 5-6] | | |
| * Lymph Node, Bronchial | | Lymphoma Malignant | |
| * Lymph Node, Mediastinal | | Lymphoma Malignant | |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 739

TRT#: 8

SEX: Female

DAY ON TEST: 572

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60759

ORGAN AND ACCOUNTABLE SITE STATUS

	[Lymphoma Malignant TGLs = 2-3]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 6-7+14]		
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Pancreas		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 1-5+13]		
* Thymus		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Lung Fibrosis

Experiment Number: 20523 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 740

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|---------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Clitoral Gland | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|-------------------------|---------------------------------------|-------------------------------|----------------------|
| * Brain | | Lymphoma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Lymphoma Malignant | |
| | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Mild |
| | Epiglottis | Metaplasia | Squamous, Marked |
| * Liver | [Hepatocellular Adenoma TGLs = 2-6] | Hepatocellular Adenoma | |
| * Lung | | Fibrosis | Mild |
| | Alv/Bron Epith | Hyperplasia | Moderate |
| | Alveolar Epith | Hyperplasia | Marked |
| | | Infiltration Cellular | Histiocyte, Moderate |
| | | Inflammation | Chronic, Moderate |
| | | Lymphoma Malignant | |
| * Lymph Node, Bronchial | | Lymphoma Malignant | |
| * Nose | Respirat Epith | Accumulation, Hyaline Droplet | Marked |
| | Olfactory Epi | Accumulation, Hyaline Droplet | Mild |
| | Respirat Epith | Atrophy | Minimal |
| | Turbinate | Atrophy | Minimal |
| | | Exudate | Moderate |
| | | Inflammation | Chronic Active, Mild |

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 740

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60760

ORGAN AND ACCOUNTABLE SITE STATUS

	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
	Turbinate	Perforation	
* Ovary		Cyst	Multiple
[Cyst TGLs = 1-8]			
* Spleen		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 741

TRT#: 8

SEX: Female

DAY ON TEST: 715

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60761

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Heart	* Intestine Large, Colon	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Urinary Bladder			

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum			

OBSERVATIONS

* Harderian Gland		Carcinoma	
[Carcinoma TGLs = 1-11]			
* Larynx	Epiglottis	Hyperplasia	Squamous, Moderate
	Epiglottis	Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Marked
* Liver		Eosinophilic Focus	
		Lymphoma Malignant	
[Eosinophilic Focus TGLs = 9,10-5+13]			
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic, Mild
[Alveolar/Bronchiolar Adenoma TGLs = 4,8-4+12]			
[Alveolar/Bronchiolar Carcinoma TGLs = 2,5-4]			
[Infiltration Cellular TGLs = 3-6]			
* Lymph Node, Bronchial		Infiltration Cellular	Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 741

TRT#: 8

SEX: Female

DAY ON TEST: 715

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60761

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLs = 7-12]	Fat	Necrosis	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Thymus		Atrophy	Mild
* Trachea	Cartilage	Metaplasia	Osseous, Minimal
* Uterus [Hyperplasia TGLs = 6-9]	Endometrium	Hyperplasia	Cystic, Marked

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 742

TRT#: 8

SEX: Female

DAY ON TEST: 672

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60762

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

AUTO PRECLUDES DIAG.

* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Kidney		Cyst	
		Lymphoma Malignant	
[Cyst TGLs = 3-6]			
* Larynx	Epiglottis	Hyperplasia	Squamous, Moderate
		Lymphoma Malignant	
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Lymphoma Malignant	
* Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Moderate
		Lymphoma Malignant	
[Alveolar/Bronchiolar Carcinoma TGLs = 2-4]			
Lymph Node	Lumbar	Lymphoma Malignant	
[Lymphoma Malignant TGLs = 5-13]			
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
Mesentery		Lymphoma Malignant	
[Lymphoma Malignant TGLs = 4-12]			
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 742

TRT#: 8

SEX: Female

DAY ON TEST: 672

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60762

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 6-14]		
* Spleen		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH - Lung Lymphoma Malignant

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 743

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60763

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Urinary Bladder			

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Brain		Lymphoma Malignant	
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
	Epiglottis	Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 1-5]		
* Lung		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Marked
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 743

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60763

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Exudate	Moderate
		Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
	Turbinate	Perforation	
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 2-5]		
* Trachea	Epithelium	Degeneration	Mild
	Cartilage	Metaplasia	Osseous, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 744

TRT#: 8

SEX: Female

DAY ON TEST: 635

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60764

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Moderate
[Degeneration TGLs = 6-3]			
* Kidney		Nephropathy	Minimal
[Sarcoma TGLs = 7-6]		Sarcoma	Metastatic (Skin)
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Clear Cell Focus	
[Hepatocellular Carcinoma TGLs = 1,2-5+12+13]		Hepatocellular Carcinoma	Multiple
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alv/Bron Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
* Lymph Node, Mandibular		Sarcoma	Metastatic (Skin)
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Sarcoma TGLs = 4,5-6+13]		Sarcoma	Metastatic (Skin)
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 744

TRT#: 8

SEX: Female

DAY ON TEST: 635

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60764

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Ovary	Periovarn Tiss	Sarcoma	Metastatic (Skin)
* Pancreas		Atrophy	Moderate
		Sarcoma	Metastatic (Skin)
* Skin	Subcut Tiss	Sarcoma	
	[Sarcoma TGLs = 3-14]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Sarcoma	Metastatic (Skin)
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Sarcoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 745

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Cyst	
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Alveolar/Bronchiolar Adenoma	
		Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
	[Hyperplasia TGLs = 2-12]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 745

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60765

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	[Adenoma TGLs = 1-9]		
	[Angiectasis TGLs = 1-9]		
* Spleen		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Carcinoma	
	Endometrium	Hyperplasia	Cystic, Mild
	[Carcinoma TGLs = 4-9]		

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 746

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Respirat Epith	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
* Ovary		Angiectasis	Minimal

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 746

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60766

ORGAN AND ACCOUNTABLE SITE STATUS

Cyst

[Angiectasis TGLs = 2-8]

[Cyst TGLs = 1-8]

* Thymus

* Urinary Bladder

* Uterus

Endometrium

Angiectasis

Hyperplasia

Hyperplasia

Minimal

Lymphoid, Minimal

Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 747

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60767

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	
* Brain		Compression	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Lung		Alveolar/Bronchiolar Adenoma	
		Fibrosis	Mild
	Alv/Bron Epith	Hyperplasia	Moderate
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Moderate
	[Inflammation TGLs = 2-12]		
Lymph Node	Iliac	Angiectasis	Mild
	[Angiectasis TGLs = 3-12]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 747

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60767

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Atrophy	Minimal
	Olfactory Epi	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Respirat Epith	Necrosis	Minimal
	Nasopharyn Dct	Perforation	
	Pars Distalis	Adenoma	
* Pituitary Gland			
[Adenoma TGLs = 1-9]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
	Follicular Cel	Hypertrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 748

TRT#: 8

SEX: Female

DAY ON TEST: 684

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland

MISSING

* Clitoral Gland	* Gallbladder
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OBSERVATIONS

* Heart		Histiocytic Sarcoma	
* Intestine Small, Ileum		Histiocytic Sarcoma	
* Kidney		Histiocytic Sarcoma	
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Hepatocellular Carcinoma	
		Histiocytic Sarcoma	
	[Hepatocellular Carcinoma TGLs = 4-15]		
	[Histiocytic Sarcoma TGLs = 2,3,4,5,6,7-5+12+13+14+15+16]		
* Lung		Fibrosis	Minimal
		Histiocytic Sarcoma	
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
* Lymph Node, Bronchial		Histiocytic Sarcoma	
* Lymph Node, Mandibular		Histiocytic Sarcoma	
* Lymph Node, Mediastinal		Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
Mesentery		Histiocytic Sarcoma	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 748

TRT#: 8

SEX: Female

DAY ON TEST: 684

DOSE: 100 mg/m3

DISP: Moribund Sacrifice

HISTO: 60768

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Exudate	Mild
		Histiocytic Sarcoma	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Ovary		Histiocytic Sarcoma	
* Pancreas		Histiocytic Sarcoma	
* Spleen		Histiocytic Sarcoma	
* Trachea	Epithelium	Necrosis	Minimal
* Urinary Bladder		Histiocytic Sarcoma	
* Uterus		Histiocytic Sarcoma	
	[Histiocytic Sarcoma	TGLs = 8-6]	

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma
 CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 749

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60769

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

* Clitoral Gland	* Lymph Node, Bronchial
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OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Hyperplasia	Lymphoid, Mild
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Minimal
	Epiglottis	Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLs = 5-5]		
	[Hepatocellular Carcinoma TGLs = 4-13]		
* Lung		Fibrosis	Minimal
	Alv/Bron Epith	Hyperplasia	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Minimal
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLs = 1-12]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Moderate

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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Lab: BNW

ANIMAL ID: 749

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 60769

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Atrophy	Minimal
		Exudate	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Ovary		Cyst	
[Cyst TGLs = 2-8]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Minimal
* Stomach, Forestomach		Inflammation	Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLs = 3-9]			

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 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

ANIMAL ID: 750

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60770

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Hyperplasia	Squamous, Mild
	Epiglottis	Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Marked
* Liver		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
	[Hepatocellular Carcinoma TGLs = 9-6]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Hepatocellular Carcinoma	Metastatic (Liver)
	Alveolar Epith	Hyperplasia	Mild
	Alv/Bron Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic, Minimal
	[Alveolar/Bronchiolar Carcinoma TGLs = 1,8-4+16]		
	[Hepatocellular Carcinoma TGLs = 2,3,4,5,6,7,8-4+12+13+14+15+16]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 750

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 mg/m3

DISP: Natural Death

HISTO: 60770

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Atrophy	Minimal
		Exudate	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
* Spleen		Angiectasis	Minimal
* Thymus		Atrophy	Mild
		Ectopic Parathyroid Gland	Mild

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma
CONTRIBUTORY CAUSE OF DEATH - Lung Hepatocellular Carcinoma Liver

*** END OF REPORT ***