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

Metal Working Fluids: Trim VX CAS Number: TRIMVX 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

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

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B6C3F1 MICE MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3	
Disposition Summary					
Animals Initially In Study	50	50	50	50	
Early Deaths					
Accidentally Killed			1		
Moribund Sacrifice	4	9	6	5	
Natural Death	8	2	6	8	
Survivors					
Natural Death			1		
Terminal Sacrifice	38	39	36	37	
Animals Examined Microscopically	50	50	50	50	
ALIMENTARY SYSTEM					
Esophagus	(50)	(50)	(50)	(50)	
Gallbladder	(43)	(46)	(39)	(42)	
Infiltration Cellular, Lymphoid			1 (3%)		
Inflammation, Chronic Active	1 (2%)	1 (2%)	1 (3%)	1 (2%)	
Vacuolization Cytoplasmic	()	1 (2%)		2 (5%)	
Epithelium, Hyperplasia				1 (2%)	
Intestine Large, Cecum	(45)	(49)	(47)	(46)	
Hemorrhage	1 (2%)				
Hyperplasia	1 (2%)				
Hyperplasia, Lymphoid	2 (4%)			3 (7%)	
Infiltration Cellular, Lymphoid			1 (2%)		
Inflammation	2 (4%)	2 (4%)	3 (6%)	1 (2%)	
Necrosis	1 (2%)	· /	1 (2%)	· /	
Intestine Large, Colon	(48)	(50)	(48)	(48)	
Hyperplasia, Lymphoid	``	. /	1 (2%)		
Intestine Large, Rectum	(46)	(48)	(46)	(45)	
Inflammation	``	1 (2%)	. ,		
Intestine Small, Duodenum	(44)	(48)	(45)	(44)	
Inflammation	``	. /	· /	1 (2%)	
Intestine Small, Ileum	(45)	(49)	(46)	(43)	
Cyst	``	1 (2%)	· /		
Hyperplasia, Lymphoid	8 (18%)	9 (18%)	11 (24%)	11 (26%)	

Experiment Number: 20523 - 04

Test Type: CHRONIC

Species/Strain: MICE/B6C3F1

Route: RESPIRATORY EXPOSURE WHOLE BODY

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

Metal Working Fluids: Trim VX

CAS Number: TRIMVX

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

36C3F1 MICE MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3	
Inflammation		1 (2%)	1 (2%)		
Intestine Small, Jejunum	(45)	(48)	(45)	(44)	
Hyperplasia, Lymphoid	1 (2%)	1 (2%)	3 (7%)	2 (5%)	
Inflammation			1 (2%)		
Necrosis			1 (2%)		
Perforation			1 (2%)		
Liver	(50)	(50)	(50)	(50)	
Angiectasis	1 (2%)				
Basophilic Focus	11 (22%)	9 (18%)	3 (6%)	4 (8%)	
Clear Cell Focus	14 (28%)	11 (22%)	9 (18%)	13 (26%)	
Congestion	1 (2%)	·			
Eosinophilic Focus	8 (16%)	12 (24%)	17 (34%)	7 (14%)	
Fatty Change				1 (2%)	
Fibrosis			1 (2%)		
Hemorrhage	1 (2%)				
Inflammation, Chronic Active			2 (4%)	1 (2%)	
Mixed Cell Focus	3 (6%)	3 (6%)	6 (12%)	5 (10%)	
Necrosis				1 (2%)	
Tension Lipidosis	1 (2%)	3 (6%)	3 (6%)		
Thrombosis				1 (2%)	
Bile Duct, Vacuolization Cytoplasmic				1 (2%)	
Centrilobular, Hepatocyte, Fatty Change		2 (4%)			
Centrilobular, Hepatocyte, Necrosis	2 (4%)				
Hepatocyte, Hypertrophy	1 (2%)	1 (2%)		1 (2%)	
Hepatocyte, Necrosis	3 (6%)	7 (14%)	5 (10%)	5 (10%)	
Hepatocyte, Vacuolization Cytoplasmic	1 (2%)	·			
Periportal, Fatty Change	-		1 (2%)		
Serosa, Fibrosis			1 (2%)		
Mesentery	(5)	(7)	(4)	(2)	
Fat, Necrosis	4 (80%)	4 (57%)	1 (25%)	2 (100%)	
Pancreas	(50)	(50)	(49)	(50)	
Atrophy			1 (2%)		
Cyst				1 (2%)	
Hemorrhage, Acute		1 (2%)			
Hypertrophy	2 (4%)				
Inflammation, Chronic Active		3 (6%)			

Experiment Number: 20523 - 04

Route: RESPIRATORY EXPOSURE WHOLE BODY

Test Type: CHRONIC

Species/Strain: MICE/B6C3F1

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

Metal Working Fluids: Trim VX

CAS Number: TRIMVX

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

B6C3F1 MICE MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3	
Acinus, Atrophy				1 (2%)	
Duct, Hyperplasia		1 (2%)			
Salivary Glands	(50)	(50)	(49)	(50)	
Stomach, Forestomach	(50)	(50)	(49)	(50)	
Abscess				1 (2%)	
Cyst, Squamous				1 (2%)	
Hyperplasia		1 (2%)	5 (10%)	1 (2%)	
Infiltration Cellular, Lymphoid		1 (2%)			
Inflammation, Chronic Active	1 (2%)	3 (6%)	3 (6%)	5 (10%)	
Necrosis		1 (2%)	1 (2%)		
Stomach, Glandular	(48)	(50)	(49)	(50)	
Cyst, Squamous	1 (2%)				
Infiltration Cellular, Lymphoid	· · /		1 (2%)		
Inflammation, Chronic Active	1 (2%)	4 (8%)	2 (4%)	4 (8%)	
Mineralization	1 (2%)	1 (2%)	2 (4%)		
Tooth	(5)	(10)	(8)	(5)	
Dysplasia	4 (80%)	9 (90%)	7 (88%)	3 (60%)	
Inflammation, Suppurative, Chronic Active		2 (20%)	()		
Inflammation, Suppurative		()	1 (13%)	2 (40%)	
Malformation	1 (20%)				
CARDIOVASCULAR SYSTEM				·	
Blood Vessel	(50)	(50)	(50)	(50)	
Heart	(50)	(50)	(50)	(50)	
Cardiomyopathy	19 (38%)	17 (34%)	18 (36%)	19 (38%)	
Inflammation, Chronic Active	1 (2%)	3 (6%)		1 (2%)	
Mineralization	1 (2%)			. (_,_,	
Atrium, Thrombosis	2 (4%)				
	_ ()				
ENDOCRINE SYSTEM					
Adrenal Cortex	(50)	(50)	(49)	(49)	
Accessory Adrenal Cortical Nodule	. ,	1 (2%)	1 (2%)	1 (2%)	
Angiectasis		· · ·	1 (2%)	2 (4%)	

Experiment Number: 20523 - 04	P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
Test Type: CHRONIC	Metal Working Fluids: Trim VX
Route: RESPIRATORY EXPOSURE WHOLE BODY	CAS Number: TRIMVX
Species/Strain: MICE/B6C3F1	

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

6C3F1 MICE MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3	
Hyperplasia	3 (6%)	2 (4%)	1 (2%)	1 (2%)	
Hypertrophy	21 (42%)	30 (60%)	26 (53%)	18 (37%)	
Subcapsular, Hyperplasia		1 (2%)			
Subcapsular, Hypertrophy		1 (2%)			
Adrenal Medulla	(50)	(50)	(48)	(49)	
Angiectasis	1 (2%)	2 (4%)		1 (2%)	
Hyperplasia	6 (12%)	5 (10%)	5 (10%)	5 (10%)	
Hypertrophy	1 (2%)			1 (2%)	
Islets, Pancreatic	(50)	(50)	(48)	(50)	
Hyperplasia		2 (4%)			
Hypertrophy			1 (2%)		
Parathyroid Gland	(28)	(28)	(36)	(34)	
Cyst		1 (4%)		1 (3%)	
Pituitary Gland	(50)	(49)	(48)	(48)	
Pars Distalis, Angiectasis			1 (2%)	1 (2%)	
Pars Distalis, Cyst	4 (8%)	1 (2%)	3 (6%)	6 (13%)	
Pars Distalis, Hyperplasia	3 (6%)	3 (6%)	2 (4%)	3 (6%)	
Pars Intermedia, Cyst	1 (2%)				
Thyroid Gland	(50)	(49)	(47)	(49)	

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(50)	(50)	(49)	(50)
Exfoliated Germ Cell	39 (78%)	40 (80%)	44 (90%)	40 (80%)
Infiltration Cellular, Lymphoid				1 (2%)
Inflammation, Chronic Active	1 (2%)	3 (6%)	1 (2%)	1 (2%)
Preputial Gland	(49)	(50)	(48)	(49)
Ectasia	4 (8%)	3 (6%)	3 (6%)	4 (8%)
Inflammation, Chronic Active	9 (18%)	14 (28%)	12 (25%)	12 (24%)
Necrosis			1 (2%)	
Duct, Ectasia		2 (4%)		

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

Metal Working Fluids: Trim VX

CAS Number: TRIMVX

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

B6C3F1 MICE MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3	
Prostate	(50)	(49)	(50)	(50)	
Hyperplasia			3 (6%)		
Infiltration Cellular, Lymphoid	1 (2%)	1 (2%)	1 (2%)	2 (4%)	
Inflammation	2 (4%)	1 (2%)	1 (2%)		
Arteriole, Inflammation, Chronic Active	1 (2%)				
Seminal Vesicle	(50)	(50)	(50)	(50)	
Dilatation				1 (2%)	
Infiltration Cellular, Lymphoid	1 (2%)	1 (2%)	1 (2%)		
Inflammation	1 (2%)	2 (4%)	1 (2%)		
Testes	(50)	(50)	(49)	(50)	
Degeneration	9 (18%)	17 (34%)	15 (31%)	9 (18%)	
Necrosis		1 (2%)			
HEMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(50)	(49)	(50)	
Necrosis		2 (4%)			
Myeloid Cell, Hyperplasia	16 (32%)	29 (58%)	18 (37%)	29 (58%)	
Lymph Node	(3)	(0)	(3)	(1)	
Lumbar, Hyperplasia, Lymphoid			1 (33%)		
Pancreatic, Hyperplasia, Lymphoid	1 (33%)				
Lymph Node, Bronchial	(38)	(37)	(39)	(39)	
Hematopoietic Cell Proliferation		1 (3%)			
Hyperplasia, Lymphoid	3 (8%)	3 (8%)	2 (5%)	14 (36%)	
Infiltration Cellular, Histiocyte		1 (3%)		7 (18%)	
Infiltration Cellular, Plasma Cell				1 (3%)	
Plasma Cell, Hyperplasia			1 (3%)		
Lymph Node, Mandibular	(20)	(27)	(25)	(27)	
Hematopoietic Cell Proliferation	1 (5%)			· ·	
Hyperplasia, Lymphoid	3 (15%)	3 (11%)	2 (8%)	1 (4%)	
Infiltration Cellular, Histiocyte	1 (5%)	1 (4%)	1 (4%)	1 (4%)	
Lymph Node, Mediastinal	(35)	(35)	(41)	(40)	
Hematopoietic Cell Proliferation			1 (2%)		
Hyperplasia, Lymphoid	3 (9%)	2 (6%)	1 (2%)	5 (13%)	
Lymph Node, Mesenteric	(48)	(49)	(47)	(48)	

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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

Metal Working Fluids: Trim VX

CAS Number: TRIMVX

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

36C3F1 MICE MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3	
Angiectasis	1 (2%)		3 (6%)		
Congestion	1 (2%)		(
Hematopoietic Cell Proliferation		3 (6%)	4 (9%)	1 (2%)	
Hyperplasia, Lymphoid	15 (31%)	11 (22%)	9 (19%)	6 (13%)	
Hyperplasia, Plasma Cell	1 (2%)		1 (2%)		
Infiltration Cellular		1 (2%)	· · ·		
Inflammation, Chronic Active		1 (2%)	1 (2%)	1 (2%)	
Spleen	(49)	(50)	(49)	(50)	
Angiectasis		1 (2%)		· · · ·	
Hematopoietic Cell Proliferation	11 (22%)	8 (16%)	11 (22%)	10 (20%)	
Hyperplasia, Lymphoid	13 (27%)	15 (30%)	9 (18%)	8 (16%)	
Necrosis, Lymphoid		1 (2%)	× /		
Thymus	(44)	(44)	(47)	(46)	
Atrophy	5 (11%)	5 (11%)	8 (17%)	9 (20%)	
Cyst	1 (2%)	3 (7%)	5 (11%)	5 (11%)	
Ectopic Parathyroid Gland	1 (2%)	2 (5%)	3 (6%)		
Ectopic Thyroid		()		1 (2%)	
Hyperplasia, Lymphoid	1 (2%)	5 (11%)		4 (9%)	
Epithelial Cell, Hyperplasia	1 (2%)	- ()			
NTEGUMENTARY SYSTEM					
Mammary Gland	(3)	(3)	(0)	(0)	
Skin	(50)	(50)	(50)	(50)	
Cyst Epithelial Inclusion		1 (2%)		4 (8%)	
Fibrosis			1 (2%)		
Hyperkeratosis			· · ·	1 (2%)	
Hyperplasia	3 (6%)	2 (4%)		3 (6%)	
Inflammation, Chronic Active	10 (20%)	6 (12%)	8 (16%)	11 (22%)	
Metaplasia, Osseous	· · /	· /	1 (2%)	· · /	
Necrosis	1 (2%)	3 (6%)	1 (2%)		
Ulcer	3 (6%)	2 (4%)	3 (6%)	3 (6%)	
Hair Follicle, Atrophy	· · /	· · /	1 (2%)		
Subcutaneous Tissue, Inflammation, Chronic Active		1 (2%)			

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Metal Working Fluids: Trim VX

CAS Number: TRIMVX

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

B6C3F1 MICE MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3	
MUSCULOSKELETAL SYSTEM					
Bone	(50)	(50)	(50)	(50)	
Fibro-Osseous Lesion	(50) 1 (2%)	3 (6%)	(50) 1 (2%)	(30)	
Hyperostosis	1 (2%)	1 (2%)	1 (270)		
Skeletal Muscle	(0)	(1)	(2)	(1)	
Degeneration	(0)	1 (100%)	(2)	1 (100%)	
Degeneration		1 (10078)		1 (100 %)	
NERVOUS SYSTEM					
Brain	(50)	(50)	(49)	(50)	
Compression	()	()	1 (2%)	()	
Gliosis			. (=)	1 (2%)	
Infiltration Cellular	1 (2%)	2 (4%)	1 (2%)	. (=,-,,	
Inflammation, Chronic Active	2 (4%)	1 (2%)	1 (2%)	1 (2%)	
Peripheral Nerve	(0)	(1)	(1)	(2)	
Degeneration	(-)	1 (100%)		1 (50%)	
Spinal Cord	(0)	(1)	(1)	(2)	
RESPIRATORY SYSTEM					
Larynx	(48)	(49)	(49)	(49)	
Foreign Body		1 (2%)			
Inflammation, Chronic Active	45 (94%)	47 (96%)	46 (94%)	48 (98%)	
Mineralization			1 (2%)		
Necrosis		1 (2%)	1 (2%)		
Epiglottis, Hyperplasia, Squamous	1 (2%)	2 (4%)	14 (29%)	30 (61%)	
Epiglottis, Metaplasia, Squamous		49 (100%)	49 (100%)	49 (100%)	
Squamous Epithelium, Hyperplasia	1 (2%)				
Lung	(50)	(50)	(49)	(50)	
Fibrosis		2 (4%)	5 (10%)	45 (90%)	
Hemorrhage		1 (2%)	1 (2%)		
Infiltration Cellular, Histiocyte	5 (10%)	9 (18%)	15 (31%)	49 (98%)	

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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

Metal Working Fluids: Trim VX

CAS Number: TRIMVX

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

B6C3F1 MICE MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
Inflammation, Chronic	5 (10%)	12 (24%)	16 (33%)	50 (100%)
Metaplasia, Osseous				1 (2%)
Pigmentation	2 (4%)	2 (4%)	2 (4%)	8 (16%)
Proteinosis		· · ·	1 (2%)	
Thrombosis		1 (2%)	2 (4%)	
Alveolar/bronchiolar Epithelium, Hyperplasia	3 (6%)	7 (14%)	15 (31%)	50 (100%)
Alveolar Epithelium, Hyperplasia	3 (6%)	3 (6%)	7 (14%)	47 (94%)
Bronchiole, Metaplasia, Squamous		, , ,	х <i>у</i>	1 (2%)
Nose	(49)	(50)	(49)	(50)
Exudate	2 (4%)	11 (22%)	35 (71%)	49 (98%)
Inflammation, Suppurative	1 (2%)	, , ,	, , ,	
Inflammation, Chronic	. ,		1 (2%)	
Inflammation, Chronic Active	3 (6%)	33 (66%)	39 (80%)	50 (100%)
Polyp, Inflammatory	· · ·		1 (2%)	· · · ·
Glands, Olfactory Epithelium, Hyperplasia			、 ,	1 (2%)
Lateral Wall, Inflammation, Chronic Active	2 (4%)	7 (14%)	4 (8%)	5 (10%)
Lateral Wall, Necrosis	. ,	1 (2%)	、 ,	. ,
Nasolacrimal Duct, Abscess	1 (2%)	. ,		
Nasolacrimal Duct, Inflammation, Chronic Active	3 (6%)	2 (4%)	2 (4%)	2 (4%)
Nasopharyngeal Duct, Hyperplasia		1 (2%)		
Nasopharyngeal Duct, Inflammation, Chronic Active		1 (2%)		
Nasopharyngeal Duct, Perforation		1 (2%)	11 (22%)	19 (38%)
Olfactory Epithelium, Accumulation, Hyaline Droplet	2 (4%)	46 (92%)	48 (98%)	50 (100%)
Olfactory Epithelium, Atrophy		1 (2%)		4 (8%)
Olfactory Epithelium, Metaplasia, Respiratory	3 (6%)	2 (4%)	3 (6%)	5 (10%)
Respiratory Epithelium, Accumulation, Hyaline Droplet	7 (14%)	49 (98%)	49 (100%)	50 (100%)
Respiratory Epithelium, Atrophy		1 (2%)	20 (41%)	40 (80%)
Respiratory Epithelium, Hyperplasia	41 (84%)	49 (98%)	47 (96%)	48 (96%)
Respiratory Epithelium, Metaplasia, Squamous	1 (2%)	2 (4%)	1 (2%)	1 (2%)
Respiratory Epithelium, Necrosis	2 (4%)	1 (2%)	2 (4%)	23 (46%)
Turbinate, Atrophy		2 (4%)	5 (10%)	14 (28%)
Turbinate, Perforation			1 (2%)	13 (26%)
Pleura	(0)	(1)	(0)	(1)

Experiment Number: 20523 - 04 Test Type: CHRONIC Route: RESPIRATORY EXPOSURE WHOLE BODY Species/Strain: MICE/B6C3F1	P03: INCIDENCE R	ATES OF NON-NEOP Metal Working CAS Numb	Date Report Requested: 02/02/2015 Time Report Requested: 13:50:12 First Dose M/F: 08/03/09 / 08/03/09 Lab: BNW		
B6C3F1 MICE MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3	
Trachea Cartilage, Metaplasia, Osseous Epithelium, Hyperplasia	(46) 1 (2%)	(50)	(47) 1 (2%)	(48) 1 (2%) 3 (6%)	
SPECIAL SENSES SYSTEM					
Eye Cataract	(50)	(50)	(49)	(49) 1 (2%)	
Inflammation, Chronic Active Necrosis	1 (2%)	4 (8%)	3 (6%) 1 (2%)	3 (6%)	
Harderian Gland	(50)	(50)	(49)	(50)	
Hyperplasia Inflammation	1 (2%)	1 (2%) 1 (2%)	3 (6%)	1 (2%)	
URINARY SYSTEM				-	
Kidney	(50)	(50)	(49)	(50)	
Angiectasis			1 (2%)		
Cyst			1 (2%)	1 (2%)	
Hydronephrosis				1 (2%)	
Hyperplasia, Lymphoid	1 (2%)	2 (4%)			
Infarct, Chronic	1 (2%)	2 (4%)	1 (2%)	2 (4%)	
Inflammation, Chronic Active	1 (2%)	1 (2%)	2 (4%)	2 (4%)	
Metaplasia, Osseous	4 (00()	2 (4%)	1 (2%)	1 (2%)	
Mineralization	1 (2%)	1 (2%)		40 (000()	
Nephropathy Artery Information Chronic Active	47 (94%)	46 (92%)	45 (92%)	49 (98%)	
Artery, Inflammation, Chronic Active	(0)	(0)	1 (2%)	(0)	
Urethra Urinary Bladder	(0) (50)	(0) (50)	(1) (49)	(0) (50)	
Angiectasis	(00)	(50) 1 (2%)	(49)	(30)	
Calculus Micro Observation Only	1 (2%)	· (2/0)			
Inflammation, Suppurative	· (~/0)	1 (2%)			
Inflammation, Chronic Active		. (270)	1 (2%)		
Ulcer		1 (2%)	. (= /0)		

Experiment Number: 20523 - 04 Test Type: CHRONIC Route: RESPIRATORY EXPOSURE WHOLE BODY Species/Strain: MICE/B6C3F1	P03: INCIDENCE RA	TES OF NON-NEOPI Metal Working CAS Numb	Date Report Requested: 02/02/2015 Time Report Requested: 13:50:12 First Dose M/F: 08/03/09 / 08/03/09 Lab: BNW		
B6C3F1 MICE MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3	

*** END OF MALE ***

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

Metal Working Fluids: Trim VX

CAS Number: TRIMVX

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

B6C3F1 MICE FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3	
Disposition Summary					
Animals Initially In Study	50	50	50	50	
Early Deaths					
Accidentally Killed	1				
Moribund Sacrifice	10	9	4	13	
Natural Death	4	5	10	7	
Survivors					
Moribund Sacrifice	1				
Natural Death				1	
Terminal Sacrifice	34	36	36	29	
Animals Examined Microscopically	50	50	50	50	
ALIMENTARY SYSTEM					
Esophagus	(50)	(50)	(50)	(49)	
Periesophageal Tissue, Inflammation, Chronic Active	1 (2%)			1 (2%)	
Gallbladder	(46)	(46)	(44)	(44)	
Inflammation, Chronic Active	1 (2%)				
Vacuolization Cytoplasmic			1 (2%)		
Intestine Large, Cecum	(50)	(49)	(46)	(45)	
Hyperplasia, Lymphoid		1 (2%)			
Inflammation	2 (4%)		1 (2%)	1 (2%)	
Intestine Large, Colon	(50)	(50)	(47)	(50)	
Hyperplasia, Lymphoid				1 (2%)	
Inflammation	1 (2%)				
Intestine Large, Rectum	(48)	(48)	(46)	(45)	
Edema	1 (2%)				
Inflammation		1 (2%)			
Intestine Small, Duodenum	(48)	(46)	(43)	(45)	
Hyperplasia, Lymphoid		1 (2%)			
Infiltration Cellular, Lymphoid		1 (2%)			
Inflammation	1 (2%)	3 (7%)	1 (2%)		
Necrosis			1 (2%)		
Intestine Small, Ileum	(48)	(47)	(44)	(46)	

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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

Metal Working Fluids: Trim VX

CAS Number: TRIMVX

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

B6C3F1 MICE FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3	
Hyperplasia, Lymphoid	4 (8%)	8 (17%)	4 (9%)	2 (4%)	
Hyperplasia, Plasma Cell				1 (2%)	
Inflammation	1 (2%)	4 (9%)			
Perforation		1 (2%)			
Serosa, Fibrosis		1 (2%)			
Intestine Small, Jejunum	(48)	(45)	(45)	(46)	
Hyperplasia, Lymphoid	2 (4%)	2 (4%)	1 (2%)	1 (2%)	
Inflammation	1 (2%)	1 (2%)	1 (2%)		
Perforation	1 (2%)				
Ulcer			1 (2%)		
Liver	(50)	(50)	(50)	(50)	
Angiectasis	1 (2%)	2 (4%)	1 (2%)		
Basophilic Focus	6 (12%)	2 (4%)	2 (4%)	4 (8%)	
Clear Cell Focus		5 (10%)	3 (6%)	3 (6%)	
Cyst		1 (2%)			
Eosinophilic Focus	3 (6%)	8 (16%)	7 (14%)	8 (16%)	
Fatty Change	1 (2%)	2 (4%)	1 (2%)	· · · ·	
Hematopoietic Cell Proliferation		1 (2%)	1 (2%)		
Hepatodiaphragmatic Nodule		1 (2%)			
Hyperplasia, Granulocytic	1 (2%)				
Infarct		1 (2%)			
Inflammation, Chronic Active	5 (10%)	1 (2%)	1 (2%)	2 (4%)	
Mixed Cell Focus	1 (2%)	1 (2%)		1 (2%)	
Necrosis	1 (2%)	1 (2%)			
Tension Lipidosis	1 (2%)	4 (8%)			
Hepatocyte, Degeneration	、 <i>,</i>	. ,		2 (4%)	
Hepatocyte, Hypertrophy		2 (4%)	1 (2%)	1 (2%)	
Hepatocyte, Necrosis	3 (6%)	1 (2%)	2 (4%)	5 (10%)	
Mesentery	(10)	(10)	(5)	(11)	
Inflammation, Chronic Active	2 (20%)	1 (10%)	. /		
Pigmentation	1 (10%)	. ,			
Fat, Necrosis	6 (60%)	9 (90%)	5 (100%)	6 (55%)	
Pancreas	(50)	(50)	(49)	(50)	
Atrophy	2 (4%)	1 (2%)	1 (2%)	1 (2%)	
Hypertrophy	· · /	· · /		3 (6%)	
Infiltration Cellular, Lymphoid	1 (2%)	1 (2%)		1 (2%)	

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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

Metal Working Fluids: Trim VX

CAS Number: TRIMVX

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

B6C3F1 MICE FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3	
Inflammation, Chronic Active	3 (6%)		3 (6%)		
Necrosis	1 (2%)				
Duct, Cyst	1 (2%)		1 (2%)		
Salivary Glands	(50)	(50)	(50)	(50)	
Inflammation, Suppurative		1 (2%)			
Necrosis, Acute		1 (2%)			
Stomach, Forestomach	(50)	(50)	(50)	(50)	
Cyst, Squamous		1 (2%)			
Hyperkeratosis	2 (4%)	4 (8%)	1 (2%)	2 (4%)	
Hyperplasia	3 (6%)	6 (12%)	1 (2%)	2 (4%)	
Inflammation			1 (2%)	1 (2%)	
Inflammation, Chronic Active	5 (10%)	1 (2%)	1 (2%)	1 (2%)	
Ulcer	· · · ·	1 (2%)	1 (2%)	1 (2%)	
Stomach, Glandular	(49)	(50)	(49)	(50)	
Cyst		1 (2%)	1 (2%)		
Hyperplasia, Lymphoid		1 (2%)	(
Inflammation, Chronic Active	4 (8%)	3 (6%)	2 (4%)	1 (2%)	
Mineralization	1 (2%)	2 (4%)		· · · ·	
Tooth	(0)	(1)	(0)	(0)	
Dysplasia	.,	1 (100%)			
CARDIOVASCULAR SYSTEM					
Blood Vessel	(50)	(50)	(50)	(50)	
Heart	(50)	(50)	(49)	(50)	
Cardiomyopathy	12 (24%)	18 (36%)	12 (24%)	15 (30%)	
Infiltration Cellular, Lymphoid	1 (2%)				
Inflammation, Suppurative			1 (2%)		
Inflammation, Chronic Active	1 (2%)	5 (10%)	3 (6%)	6 (12%)	
Mineralization	1 (2%)	· · ·	1 (2%)	· ·	
Necrosis			2 (4%)	1 (2%)	
Thrombosis			· · /	1 (2%)	
Coronary Artery, Fibrosis	1 (2%)			· · ·	
Coronary Artery, Thrombosis	× ,			1 (2%)	

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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

Metal Working Fluids: Trim VX

CAS Number: TRIMVX

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

Control	10 mg/m3	30 mg/m3	100 mg/m3	
(50)	(50)	(50)	(50)	
		· · ·	. ,	
1 (2%)		1 (2%)	, , , , , , , , , , , , , , , , , , ,	
	6 (12%)		7 (14%)	
	(50)	(50)	(50)	
			· · · ·	
			1 (2%)	
(50)	(49)	(49)		
	(),	(),	、	
	(49)	(49)	(49)	
			5 (10%)	
	· · · · ·	(),	. ,	
11 (23%)	17 (35%)	15 (31%)		
	· · · · ·	(),		
	(50)	(50)	(49)	
			、	
	, , , , , , , , , , , , , , , , , , ,			
	2 (4%)	· · /	1 (2%)	
3 (6%)	, , , , , , , , , , , , , , , , , , ,	2 (4%)		
			1 (2%)	
(1)	(0)	(0)	(0)	
1 (100%)	(*)	(~)		
	(50) 2 (4%) $1 (2%) 6 (12%)$ $14 (28%) 14 (28%) 14 (28%) 1 (2%) (50)$ $11 (22%) 1 (2%) (50) (35) 1 (2%) (35) 1 (3%) (48) 5 (10%) 11 (23%) 1 (2%) (50) 1 (2%) (50) 1 (2%) (50) 1 (2%) (50) 1 (2%) (3 (6%))$	$ \begin{array}{ccccc} (50) & (50) \\ 2 (4\%) & 2 (4\%) \\ 3 (6\%) \\ \hline 1 (2\%) & 6 (12\%) \\ 14 (28\%) & 8 (16\%) \\ 1 (2\%) & \\ (50) & (50) \\ 11 (22\%) & 7 (14\%) \\ 1 (2\%) & \\ (50) & (49) \\ (35) & (30) \\ 1 (2\%) & \\ (50) & (49) \\ (35) & (30) \\ 1 (3\%) & \\ (48) & (49) \\ 5 (10\%) & 2 (4\%) \\ \hline 11 (23\%) & 17 (35\%) \\ 1 (2\%) & \\ 1 (2\%) & \\ 1 (2\%) & \\ (50) & (50) \\ 1 (2\%) & \\ 1 (2\%) & \\ 2 (4\%) \\ 3 (6\%) & \\ \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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

Metal Working Fluids: Trim VX

CAS Number: TRIMVX

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

B6C3F1 MICE FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3	
GENITAL SYSTEM					
Clitoral Gland	(46)	(48)	(45)	(46)	
Ovary	(50)	(49)	(49)	(50)	
Angiectasis	1 (2%)	1 (2%)		3 (6%)	
Congestion			1 (2%)		
Cyst	13 (26%)	8 (16%)	9 (18%)	7 (14%)	
Cyst, Multiple	1 (2%)		· · ·	1 (2%)	
Hemorrhage	1 (2%)				
Inflammation, Chronic Active	2 (4%)	1 (2%)	2 (4%)		
Periovarian Tissue, Inflammation, Chronic Active	1 (2%)		, , ,		
Uterus	(50)	(50)	(50)	(50)	
Adenomyosis	1 (2%)		()	· · ·	
Angiectasis	1 (2%)	4 (8%)	3 (6%)	2 (4%)	
Hemorrhage			1 (2%)	(),	
Inflammation, Chronic Active	3 (6%)	4 (8%)	3 (6%)	5 (10%)	
Necrosis	- ()	()		1 (2%)	
Endometrium, Hyperplasia, Cystic	45 (90%)	35 (70%)	43 (86%)	43 (86%)	
HEMATOPOIETIC SYSTEM					
Bone Marrow	(49)	(50)	(50)	(50)	
Atrophy		1 (2%)			
Hyperplasia, Granulocytic	1 (2%)				
Myelofibrosis	1 (2%)				
Necrosis	()			2 (4%)	
Myeloid Cell, Hyperplasia	1 (2%)		4 (8%)	1 (2%)	
Lymph Node	(11)	(11)	(11)	(10)	
Pigmentation	× /	· /	1 (9%)	1 (10%)	
Artery, Lumbar, Inflammation, Chronic Active			()	1 (10%)	
Artery, Renal, Inflammation, Chronic Active				1 (10%)	
Iliac, Angiectasis			1 (9%)	1 (10%)	
			. (0,0)	. (,	
Iliac, Infiltration Cellular, Mixed Cell	1 (9%)				

Experiment Number: 20523 - 04

Route: RESPIRATORY EXPOSURE WHOLE BODY

Test Type: CHRONIC

Species/Strain: MICE/B6C3F1

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

Metal Working Fluids: Trim VX

CAS Number: TRIMVX

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

B6C3F1 MICE FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3	
Lumbar, Hematopoietic Cell Proliferation			1 (9%)		
Lumbar, Infiltration Cellular, Plasma Cell				1 (10%)	
Lumbar, Inflammation, Suppurative	1 (9%)				
Lumbar, Necrosis	1 (9%)				
Pancreatic, Hyperplasia, Lymphoid		1 (9%)	1 (9%)		
Renal, Angiectasis			1 (9%)	1 (10%)	
Renal, Hyperplasia, Lymphoid			1 (9%)		
Renal, Infiltration Cellular, Plasma Cell				1 (10%)	
Renal, Necrosis				1 (10%)	
Lymph Node, Bronchial	(44)	(44)	(44)	(43)	
Hematopoietic Cell Proliferation			1 (2%)		
Hyperplasia, Lymphoid	6 (14%)	4 (9%)	9 (20%)	9 (21%)	
Infiltration Cellular, Histiocyte	1 (2%)		2 (5%)	4 (9%)	
Inflammation, Suppurative			1 (2%)		
Plasma Cell, Hyperplasia				1 (2%)	
Lymph Node, Mandibular	(35)	(42)	(37)	(39)	
Hematopoietic Cell Proliferation			1 (3%)		
Hyperplasia, Lymphoid	4 (11%)	1 (2%)	3 (8%)	1 (3%)	
Infiltration Cellular, Histiocyte			1 (3%)	1 (3%)	
Infiltration Cellular, Plasma Cell	1 (3%)				
Lymph Node, Mediastinal	(40)	(44)	(45)	(45)	
Hyperplasia, Lymphoid	2 (5%)	4 (9%)	7 (16%)	5 (11%)	
Hyperplasia, Plasma Cell	1 (3%)	1 (2%)			
Infiltration Cellular, Histiocyte	1 (3%)		1 (2%)	1 (2%)	
Pigmentation				1 (2%)	
Lymph Node, Mesenteric	(49)	(49)	(47)	(48)	
Angiectasis		3 (6%)	2 (4%)	1 (2%)	
Hematopoietic Cell Proliferation			1 (2%)	1 (2%)	
Hyperplasia, Lymphoid	11 (22%)	7 (14%)	12 (26%)	4 (8%)	
Inflammation, Chronic Active	1 (2%)				
Necrosis	1 (2%)	1 (2%)			
Artery, Inflammation		1 (2%)			
Spleen	(50)	(49)	(48)	(49)	
Angiectasis	2 (4%)	1 (2%)	2 (4%)	1 (2%)	
Hematopoietic Cell Proliferation	11 (22%)	7 (14%)	11 (23%)	11 (22%)	
Hyperplasia, Granulocytic	1 (2%)		1 (2%)		

Experiment Number: 20523 - 04 Test Type: CHRONIC Route: RESPIRATORY EXPOSURE WHOLE BODY Species/Strain: MICE/B6C3F1	P03: INCIDENCE R	ATES OF NON-NEOP Metal Working CAS Numb	Date Report Requested: 02/02/20 Time Report Requested: 13:50:12 First Dose M/F: 08/03/09 / 08/03/0 Lab: BNW		
B6C3F1 MICE FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3	
Hyperplasia, Lymphoid	20 (40%)	26 (53%)	17 (35%)	13 (27%)	
Inflammation, Suppurative	1 (2%)	1 (2%)	1 (2%)	1 (2%)	
Necrosis, Lymphoid		1 (2%)		1 (2%)	
Thymus	(48)	(48)	(47)	(49)	
Angiectasis		2 (4%)		3 (6%)	
Atrophy	6 (13%)	1 (2%)	7 (15%)	4 (8%)	
Cyst	1 (2%)	1 (2%)	1 (2%)	5 (10%)	
Ectopic Parathyroid Gland	2 (4%)	3 (6%)	5 (11%)	5 (10%)	
Hyperplasia, Lymphoid	11 (23%)	15 (31%)	13 (28%)	11 (22%)	
Necrosis, Lymphoid				1 (2%)	
INTEGUMENTARY SYSTEM					
Mammary Gland	(50)	(50)	(50)	(50)	
Dilatation		1 (2%)			
Hyperplasia	1 (2%)		1 (2%)	1 (2%)	
Inflammation	1 (2%)				
Skin	(50)	(50)	(50)	(50)	
Edema	1 (2%)		1 (2%)		
Hemorrhage, Acute	1 (2%)				
Hyperplasia				1 (2%)	
Inflammation, Chronic Active	2 (4%)	3 (6%)	2 (4%)	5 (10%)	
Necrosis				1 (2%)	
Ulcer		2 (4%)			
MUSCULOSKELETAL SYSTEM					
Bone	(50)	(50)	(50)	(50)	
Fibro-Osseous Lesion	6 (12%)	10 (20%)	12 (24%)	9 (18%)	
Skeletal Muscle	(3)	(4)	(2)	(4)	
Degeneration	1 (33%)	·	·	·	
Infiltration Cellular, Lymphoid	1 (33%)				

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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

Metal Working Fluids: Trim VX

CAS Number: TRIMVX

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

B6C3F1 MICE FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Compression	5 (10%)	1 (2%)	1 (2%)	3 (6%)
Demyelination			1 (2%)	
Hemorrhage	2 (4%)			
Hydrocephalus	1 (2%)			
Infiltration Cellular		1 (2%)	3 (6%)	
Infiltration Cellular, Lymphocyte		1 (2%)		
Inflammation, Chronic Active	3 (6%)	. ,		
Necrosis, Focal		1 (2%)		
Meninges, Infiltration Cellular			1 (2%)	
Peripheral Nerve	(3)	(3)	(1)	(2)
Degeneration	1 (33%)			1 (50%)
Spinal Cord	(2)	(3)	(1)	(2)
RESPIRATORY SYSTEM		·		
Larynx	(50)	(50)	(50)	(50)
Inflammation, Chronic Active	44 (88%)	50 (100%)	48 (96%)	47 (94%)
Necrosis	2 (4%)			3 (6%)
Epiglottis, Hyperplasia, Squamous	4 (8%)	3 (6%)	16 (32%)	42 (84%)
Epiglottis, Metaplasia, Squamous		50 (100%)	50 (100%)	50 (100%)
Lung	(50)	(50)	(50)	(50)
Fibrosis			2 (4%)	42 (84%)
Hemorrhage		1 (2%)	2 (4%)	
Hyperplasia, Lymphoid				1 (2%)
Infiltration Cellular, Histiocyte	1 (2%)	4 (8%)	15 (30%)	48 (96%)
Inflammation, Chronic	1 (2%)	6 (12%)	26 (52%)	47 (94%)
Metaplasia, Osseous				1 (2%)
Metaplasia, Squamous				1 (2%)
Mineralization			1 (2%)	
Pigmentation				1 (2%)
Proteinosis			1 (2%)	
Thrombosis	1 (2%)			

Experiment Number: 20523 - 04 Test Type: CHRONIC Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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

Metal Working Fluids: Trim VX

CAS Number: TRIMVX

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

36C3F1 MICE FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
Alveolar/bronchiolar Epithelium, Hyperplasia		3 (6%)	8 (16%)	45 (90%)
Alveolar Epithelium, Hyperplasia			2 (4%)	43 (86%)
Alveolar Epithelium, Metaplasia, Squamous				1 (2%)
Interstitium, Inflammation, Suppurative	1 (2%)			
Mediastinum, Necrosis			1 (2%)	
Nose	(50)	(50)	(50)	(50)
Cyst, Squamous		1 (2%)		
Exudate	8 (16%)	17 (34%)	48 (96%)	49 (98%)
Foreign Body		1 (2%)	· · · ·	
Inflammation, Chronic Active	4 (8%)	25 (50%)	49 (98%)	49 (98%)
Glands, Hyperplasia	. ,	1 (2%)	. /	· · · ·
Goblet Cell, Hyperplasia		· · ·		2 (4%)
Lateral Wall, Inflammation, Chronic Active		2 (4%)		. ,
Nasolacrimal Duct, Inflammation, Chronic Active	2 (4%)		2 (4%)	
Nasopharyngeal Duct, Perforation			14 (28%)	17 (34%)
Olfactory Epithelium, Accumulation, Hyaline Droplet	14 (28%)	48 (96%)	50 (100%)	50 (100%)
Olfactory Epithelium, Atrophy	1 (2%)	2 (4%)	1 (2%)	5 (10%)
Olfactory Epithelium, Metaplasia, Respiratory	2 (4%)	2 (4%)	1 (2%)	4 (8%)
Respiratory Epithelium, Accumulation, Hyaline Droplet	23 (46%)	50 (100%)	50 (100%)	50 (100%)
Respiratory Epithelium, Atrophy	1 (2%)	2 (4%)	28 (56%)	39 (78%)
Respiratory Epithelium, Hyperplasia	49 (98%)	44 (88%)	48 (96%)	49 (98%)
Respiratory Epithelium, Metaplasia, Squamous	1 (2%)	2 (4%)	2 (4%)	2 (4%)
Respiratory Epithelium, Necrosis	. ,	2 (4%)	13 (26%)	23 (46%)
Turbinate, Atrophy			10 (20%)	19 (38%)
Turbinate, Perforation			6 (12%)	6 (12%)
Trachea	(49)	(50)	(50)	(49)
Pigmentation	. ,	. /	. /	1 (2%)
Cartilage, Metaplasia, Osseous			2 (4%)	4 (8%)
Epithelium, Degeneration			· · /	2 (4%)
Epithelium, Hyperplasia			1 (2%)	5 (10%)
Epithelium, Necrosis				1 (2%)

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

Metal Working Fluids: Trim VX

CAS Number: TRIMVX

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

B6C3F1 MICE FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3	
SPECIAL SENSES SYSTEM					
Ear	(0)	(0)	(0)	(1)	
Eye	(49)	(50)	(50)	(50)	
Inflammation, Chronic Active	(40)	(00)	1 (2%)	1 (2%)	
Cornea, Hyperplasia			1 (2%)	1 (2%)	
Harderian Gland	(50)	(49)	(49)	(49)	
Cyst	(50)	(49)	1 (2%)	(49)	
Hyperplasia	3 (6%)	2 (4%)	2 (4%)	1 (2%)	
Hypertrophy	3 (0%)	2 (4%) 1 (2%)	2 (4%)	I (270)	
пурепторну		1 (276)			
URINARY SYSTEM					
Kidney	(49)	(50)	(49)	(50)	
Amyloid Deposition			1 (2%)		
Angiectasis				1 (2%)	
Cyst	1 (2%)			2 (4%)	
Hyperplasia, Lymphoid	2 (4%)	4 (8%)		()	
Infarct, Chronic	4 (8%)	5 (10%)	5 (10%)		
Infiltration Cellular, Lymphoid	1 (2%)	(()		
Inflammation, Chronic Active	1 (2%)	2 (4%)	1 (2%)		
Metaplasia, Osseous	()	2 (4%)	2 (4%)		
Mineralization	1 (2%)	x /			
Necrosis	1 (2%)				
Nephropathy	38 (78%)	28 (56%)	26 (53%)	29 (58%)	
Pigmentation		· · · ·	· · · ·	1 (2%)	
Glomerulus, Inflammation, Acute		1 (2%)			
Renal Tubule, Hyperplasia	1 (2%)	x /			
Urethra	(0)	(1)	(0)	(0)	
Inflammation, Chronic Active	~ /	1 (100%)	· · /	· · /	
Urinary Bladder	(50)	(50)	(50)	(50)	
Angiectasis		· · /	1 (2%)		
Hyperplasia, Lymphoid	2 (4%)	3 (6%)		3 (6%)	
Inflammation, Chronic Active	2 (4%)	- \/		- (/	

Experiment Number: 20523 - 04 Test Type: CHRONIC	P03: INCIDENCE R/	ATES OF NON-NEOPL Metal Working F	Date Report Requested: 02/02/2015 Time Report Requested: 13:50:12		
Route: RESPIRATORY EXPOSURE WHOLE BODY Species/Strain: MICE/B6C3F1		CAS Numbe	First Dose M/F: 08/03/09 / 08/03/09 Lab: BNW		
B6C3F1 MICE FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3	

*** END OF REPORT ***