

TDMS No. 20303 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: THOMAS, K. - KOOISTRA, L. - HARBO, S.

F1_M3

Date Report Requested: 08/18/2006

Time Report Requested: 14:41:54

First Dose M/F: 10/11/04 / 10/11/04

Lab: BNW

C Number: C20303

Lock Date: 06/01/2005

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

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Lab: BNW

B6C3F1 MICE MALE	CONTROL	6.25 PPM	12.5 PPM	25 PPM	50 PPM
Disposition Summary					
Animals Initially in Study	10	10	10	10	10
Early Deaths					
Moribund Sacrifice					1
Natural Death					1
Survivors					
Terminal Sacrifice	10	10	10	10	8
Animals Examined Microscopically	10	10	10	10	10
ALIMENTARY SYSTEM					
Liver	(10)	(10)	(10)	(10)	(10)
Hypertrophy					1 (10%)
Inflammation, Chronic Active		2 (20%)	1 (10%)	1 (10%)	
Necrosis					2 (20%)
CARDIOVASCULAR SYSTEM					
None					
ENDOCRINE SYSTEM					
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)
Hypertrophy	1 (10%)				
Subcapsular, Hyperplasia	7 (70%)	7 (70%)	4 (40%)	2 (20%)	3 (30%)
GENERAL BODY SYSTEM					
None					
GENITAL SYSTEM					
Testes	(10)	(10)	(10)	(10)	(10)
Germinal Epithelium, Degeneration					2 (20%)

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

B6C3F1 MICE MALE	CONTROL	6.25 PPM	12.5 PPM	25 PPM	50 PPM
HEMATOPOIETIC SYSTEM					
Lymph Node, Mandibular Atrophy	(5)	(0)	(0)	(0)	(5) 1 (20%)
Lymph Node, Mesenteric Atrophy	(10)	(0)	(0)	(0)	(10) 1 (10%)
Spleen Necrosis	(10)	(10)	(10)	(10)	1 (10%) (10)
Spleen Lymphoid Follicle, Atrophy	(10)	(10)	(10)	(10)	2 (20%) (10)
Thymus Necrosis	(10)	(0)	(0)	(0)	(10) 2 (20%)
INTEGUMENTARY SYSTEM					
None					
MUSCULOSKELETAL SYSTEM					
None					
NERVOUS SYSTEM					
None					
RESPIRATORY SYSTEM					
Larynx Inflammation	(10)	(10) 1 (10%)	(10)	(10)	(10)
Larynx Necrosis			1 (10%)		
Larynx Respiratory Epithelium, Metaplasia, Squamous				1 (10%)	4 (40%)
Lung Bronchiole, Epithelium, Hyperplasia	(10)	(10)	(10)	(10)	(10) 8 (80%)
Lung Bronchiole, Epithelium, Metaplasia					1 (10%)
Lung Bronchus, Epithelium, Hyperplasia					1 (10%)
Lung Bronchus, Epithelium, Metaplasia					1 (10%)
Lung Bronchus, Epithelium, Necrosis					1 (10%)
Nose Inflammation, Chronic Active	(10)	(10)	(10)	(10)	(10) 1 (10%)

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B6C3F1 MICE MALE	CONTROL	6.25 PPM	12.5 PPM	25 PPM	50 PPM
Vomeranasal Organ, Inflammation					1 (10%)
SPECIAL SENSES SYSTEM					
None					
URINARY SYSTEM					
Kidney	(10)	(10)	(10)	(10)	(10)
Infiltration Cellular, Mononuclear Cell				1 (10%)	1 (10%)
Nephropathy			5 (50%)	10 (100%)	8 (80%)
Renal Tubule, Casts Protein					2 (20%)
Renal Tubule, Mineralization				1 (10%)	1 (10%)
Renal Tubule, Necrosis					2 (20%)
Renal Tubule, Vacuolization Cytoplasmic	10 (100%)			10 (100%)	8 (80%)

*** END OF MALE ***

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Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	6.25 PPM	12.5 PPM	25 PPM	50 PPM
Disposition Summary					
Animals Initially in Study	10	10	10	10	10
Early Deaths					
Moribund Sacrifice					
Natural Death					
Survivors					
Terminal Sacrifice	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10
ALIMENTARY SYSTEM					
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)
Lymphoid Tissue, Necrosis					
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)
Lymphoid Tissue, Necrosis					
Liver	(10)	(10)	(10)	(10)	(10)
Hypertrophy					
Inflammation, Chronic Active		1 (10%)	4 (40%)	3 (30%)	1 (10%)
Necrosis			1 (10%)		
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)
Hemorrhage					
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)
Hemorrhage					
CARDIOVASCULAR SYSTEM					
Heart	(10)	(0)	(0)	(0)	(0)
Mineralization					
ENDOCRINE SYSTEM					
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)
Subcapsular, Hyperplasia	10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
X-zone, Vacuolization Cytoplasmic	10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
GENERAL BODY SYSTEM					

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

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B6C3F1 MICE FEMALE	CONTROL	6.25 PPM	12.5 PPM	25 PPM	50 PPM
None					
GENITAL SYSTEM					
Clitoral Gland Inflammation, Chronic Active	(9) 1 (11%)	(0)	(0)	(0)	(0)
HEMATOPOIETIC SYSTEM					
Lymph Node, Mandibular Necrosis	(7)	(0)	(0)	(0)	(0)
Lymph Node, Mesenteric Necrosis	(10)	(0)	(0)	(0)	(0)
Spleen Lymphoid Follicle, Atrophy Lymphoid Follicle, Necrosis	(10)	(10)	(10)	(10)	(10)
Thymus Necrosis	(10)	(0)	(0)	(0)	(0)
INTEGUMENTARY SYSTEM					
Mammary Gland Hyperplasia	(10)	(10)	(10)	(10) 10 (100%)	(10) 10 (100%)
MUSCULOSKELETAL SYSTEM					
None					
NERVOUS SYSTEM					
None					
RESPIRATORY SYSTEM					
Larynx Exudate Inflammation Necrosis	(10)	(10)	(10)	(10)	(9)

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B6C3F1 MICE FEMALE	CONTROL	6.25 PPM	12.5 PPM	25 PPM	50 PPM
Respiratory Epithelium, Hyperplasia					
Respiratory Epithelium, Metaplasia, Squamous	1 (10%)		1 (10%)	3 (30%)	9 (100%)
Squamous Epithelium, Hyperplasia					
Lung	(10)	(10)	(10)	(10)	(10)
Infiltration Cellular, Mixed Cell	1 (10%)				
Inflammation, Histiocytic					
Metaplasia, Osseous					
Artery, Hypertrophy	1 (10%)				
Bronchiole, Epithelium, Hyperplasia				2 (20%)	10 (100%)
Bronchiole, Epithelium, Metaplasia					
Bronchiole, Epithelium, Necrosis					
Bronchus, Epithelium, Hyperplasia					
Bronchus, Epithelium, Metaplasia					
Bronchus, Epithelium, Necrosis					
Nose	(10)	(10)	(10)	(10)	(10)
Inflammation, Suppurative					
Respiratory Epithelium, Necrosis					
Respiratory Epithelium, Vacuolization					
Cytoplasmic					
Squamous Epithelium, Vacuolization					
Cytoplasmic					
Turbinates, Atrophy					
Trachea	(10)	(10)	(10)	(10)	(10)
Epithelium, Hyperplasia			2 (20%)		5 (50%)
Epithelium, Metaplasia, Squamous					1 (10%)
Epithelium, Necrosis	1 (10%)	1 (10%)			
SPECIAL SENSES SYSTEM					
None					
URINARY SYSTEM					
Kidney	(10)	(10)	(10)	(10)	(10)
Renal Tubule, Inflammation				1 (10%)	
Ureter	(0)	(0)	(1)	(0)	(0)
Vacuolization Cytoplasmic			1 (100%)		

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Lab: BNW

B6C3F1 MICE FEMALE

100 PPM

Disposition Summary

Animals Initially in Study	10
Early Deaths	
Moribund Sacrifice	1
Natural Death	3
Survivors	
Terminal Sacrifice	6
Animals Examined Microscopically	10

ALIMENTARY SYSTEM

Intestine Small, Ileum	(9)
Lymphoid Tissue, Necrosis	1 (11%)
Intestine Small, Jejunum	(8)
Lymphoid Tissue, Necrosis	1 (13%)
Liver	(10)
Hypertrophy	6 (60%)
Inflammation, Chronic Active	1 (10%)
Necrosis	4 (40%)
Stomach, Forestomach	(10)
Hemorrhage	1 (10%)
Stomach, Glandular	(10)
Hemorrhage	1 (10%)

CARDIOVASCULAR SYSTEM

Heart	(10)
Mineralization	1 (10%)

ENDOCRINE SYSTEM

Adrenal Cortex	(10)
Subcapsular, Hyperplasia	9 (90%)
X-zone, Vacuolization Cytoplasmic	10 (100%)

GENERAL BODY SYSTEM

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100 PPM

None

GENITAL SYSTEM

Clitoral Gland (9)
Inflammation, Chronic Active

HEMATOPOIETIC SYSTEM

Lymph Node, Mandibular (6)
Necrosis 2 (33%)
Lymph Node, Mesenteric (10)
Necrosis 4 (40%)
Spleen (10)
Lymphoid Follicle, Atrophy 3 (30%)
Lymphoid Follicle, Necrosis 3 (30%)
Thymus (10)
Necrosis 5 (50%)

INTEGUMENTARY SYSTEM

Mammary Gland (10)
Hyperplasia 6 (60%)

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

Larynx (10)
Exudate 2 (20%)
Inflammation 3 (30%)
Necrosis 4 (40%)

B6C3F1 MICE FEMALE

100 PPM

Respiratory Epithelium, Hyperplasia	8 (80%)
Respiratory Epithelium, Metaplasia, Squamous	7 (70%)
Squamous Epithelium, Hyperplasia	8 (80%)
Lung	(10)
Infiltration Cellular, Mixed Cell	
Inflammation, Histiocytic	6 (60%)
Metaplasia, Osseous	1 (10%)
Artery, Hypertrophy	
Bronchiole, Epithelium, Hyperplasia	5 (50%)
Bronchiole, Epithelium, Metaplasia	4 (40%)
Bronchiole, Epithelium, Necrosis	1 (10%)
Bronchus, Epithelium, Hyperplasia	1 (10%)
Bronchus, Epithelium, Metaplasia	2 (20%)
Bronchus, Epithelium, Necrosis	6 (60%)
Nose	(10)
Inflammation, Suppurative	1 (10%)
Respiratory Epithelium, Necrosis	4 (40%)
Respiratory Epithelium, Vacuolization Cytoplasmic	3 (30%)
Squamous Epithelium, Vacuolization Cytoplasmic	2 (20%)
Turbinate, Atrophy	4 (40%)
Trachea	(10)
Epithelium, Hyperplasia	8 (80%)
Epithelium, Metaplasia, Squamous	3 (30%)
Epithelium, Necrosis	2 (20%)

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

Kidney	(10)
Renal Tubule, Inflammation	
Ureter	(0)
Vacuolization Cytoplasmic	

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