

TDMS No. 20303 - 04

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)  
WITH AVERAGE SEVERITY GRADES[b]**

**Date Report Requested:** 08/18/2006

**Test Type:** 90-DAY

VINYLDENE CHLORIDE

**Time Report Requested:** 14:41:54

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**CAS Number:** 75-35-4

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

**Species/Strain:** MICE/B6C3F1

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

**Lab:** BNW

F1\_M3

**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

a - Number of animals examined microscopically at site and number of animals with lesion  
b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

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B6C3F1 MICE MALE	CONTROL	6.25 PPM	12.5 PPM	25 PPM	50 PPM
<b>Disposition Summary</b>					
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
<b>ALIMENTARY SYSTEM</b>					
Liver	(10)	(10)	(10)	(10)	(10)
Hypertrophy					1 [3.0]
Inflammation, Chronic Active		2 [1.0]	1 [1.0]	1 [1.0]	
Necrosis					2 [2.0]
<b>CARDIOVASCULAR SYSTEM</b>					
None					
<b>ENDOCRINE SYSTEM</b>					
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)
Hypertrophy	1 [1.0]				
Subcapsular, Hyperplasia	7 [1.0]	7 [1.0]	4 [1.0]	2 [1.0]	3 [1.0]
<b>GENERAL BODY SYSTEM</b>					
None					
<b>GENITAL SYSTEM</b>					
Testes	(10)	(10)	(10)	(10)	(10)
Germinal Epithelium, Degeneration					2 [2.0]

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B6C3F1 MICE MALE	CONTROL	6.25 PPM	12.5 PPM	25 PPM	50 PPM
<b>HEMATOPOIETIC SYSTEM</b>					
Lymph Node, Mandibular Atrophy	(5)	(0)	(0)	(0)	(5) 1 [3.0]
Lymph Node, Mesenteric Atrophy	(10)	(0)	(0)	(0)	(10) 1 [4.0]
Spleen Necrosis	(10)	(10)	(10)	(10)	1 [3.0] (10)
Spleen Lymphoid Follicle, Atrophy	(10)	(10)	(10)	(10)	2 [4.0] (10)
Thymus Necrosis	(10)	(0)	(0)	(0)	(10) 2 [3.0]
<b>INTEGUMENTARY SYSTEM</b>					
None					
<b>MUSCULOSKELETAL SYSTEM</b>					
None					
<b>NERVOUS SYSTEM</b>					
None					
<b>RESPIRATORY SYSTEM</b>					
Larynx Inflammation	(10)	(10) 1 [1.0]	(10)	(10)	(10)
Larynx Necrosis			1 [1.0]		
Larynx Respiratory Epithelium, Metaplasia, Squamous				1 [1.0]	4 [1.0]
Lung Bronchiole, Epithelium, Hyperplasia	(10)	(10)	(10)	(10)	(10) 8 [1.6]
Lung Bronchiole, Epithelium, Metaplasia					1 [2.0]
Lung Bronchus, Epithelium, Hyperplasia					1 [2.0]
Lung Bronchus, Epithelium, Metaplasia					1 [2.0]

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B6C3F1 MICE MALE	CONTROL	6.25 PPM	12.5 PPM	25 PPM	50 PPM
Bronchus, Epithelium, Necrosis					1 [1.0]
Nose	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic Active					1 [1.0]
Vomeranasal Organ, Inflammation					1 [1.0]
<b>SPECIAL SENSES SYSTEM</b>					
None					
<b>URINARY SYSTEM</b>					
Kidney	(10)	(10)	(10)	(10)	(10)
Infiltration Cellular, Mononuclear Cell				1 [1.0]	1 [2.0]
Nephropathy			5 [1.2]	10 [1.9]	8 [2.5]
Renal Tubule, Casts Protein					2 [4.0]
Renal Tubule, Mineralization				1 [2.0]	1 [1.0]
Renal Tubule, Necrosis					2 [4.0]
Renal Tubule, Vacuolization Cytoplasmic	10 [2.4]			10 [1.0]	8 [1.0]

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

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Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	6.25 PPM	12.5 PPM	25 PPM	50 PPM	100 PPM
<b>Disposition Summary</b>						
Animals Initially in Study	10	10	10	10	10	10
Early Deaths						
Moribund Sacrifice						1
Natural Death						3
Survivors						
Terminal Sacrifice	10	10	10	10	10	6
Animals Examined Microscopically	10	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(9)
Lymphoid Tissue, Necrosis						1 [1.0]
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(8)
Lymphoid Tissue, Necrosis						1 [1.0]
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Hypertrophy						6 [2.8]
Inflammation, Chronic Active		1 [1.0]	4 [1.0]	3 [1.0]	1 [1.0]	1 [1.0]
Necrosis			1 [1.0]			4 [4.0]
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Hemorrhage						1 [2.0]
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
Hemorrhage						1 [2.0]
<b>CARDIOVASCULAR SYSTEM</b>						
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Mineralization						1 [1.0]
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)	(10)
Subcapsular, Hyperplasia	10 [2.3]	10 [2.3]	10 [2.2]	10 [2.1]	10 [2.1]	9 [1.8]
X-zone, Vacuolization Cytoplasmic	10 [3.1]	10 [2.8]	10 [2.3]	10 [2.2]	10 [2.1]	10 [1.3]

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<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Clitoral Gland Inflammation, Chronic Active	(9) 1 [1.0]	(0)	(0)	(0)	(0)	(9)
<b>HEMATOPOIETIC SYSTEM</b>						
Lymph Node, Mandibular Necrosis	(7)	(0)	(0)	(0)	(0)	(6) 2 [2.0]
Lymph Node, Mesenteric Necrosis	(10)	(0)	(0)	(0)	(0)	(10) 4 [2.0]
Spleen Lymphoid Follicle, Atrophy Lymphoid Follicle, Necrosis	(10)	(10)	(10)	(10)	(10)	(10) 3 [3.0] 3 [2.0]
Thymus Necrosis	(10)	(0)	(0)	(0)	(0)	(10) 5 [2.6]
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland Hyperplasia	(10)	(10)	(10)	(10) 10 [1.0]	(10) 10 [1.0]	(10) 6 [1.0]
<b>MUSCULOSKELETAL SYSTEM</b>						
None						
<b>NERVOUS SYSTEM</b>						
None						
<b>RESPIRATORY SYSTEM</b>						
Larynx	(10)	(10)	(10)	(10)	(9)	(10)

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B6C3F1 MICE FEMALE	CONTROL	6.25 PPM	12.5 PPM	25 PPM	50 PPM	100 PPM
Exudate						2 [1.0]
Inflammation						3 [1.0]
Necrosis						4 [1.0]
Respiratory Epithelium, Hyperplasia						8 [1.4]
Respiratory Epithelium, Metaplasia, Squamous	1 [1.0]		1 [2.0]	3 [1.3]	9 [1.8]	7 [2.4]
Squamous Epithelium, Hyperplasia						8 [1.3]
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Infiltration Cellular, Mixed Cell	1 [1.0]					6 [1.7]
Inflammation, Histiocytic						1 [1.0]
Metaplasia, Osseous						1 [1.0]
Artery, Hypertrophy	1 [1.0]					
Bronchiole, Epithelium, Hyperplasia				2 [1.0]	10 [2.0]	5 [2.0]
Bronchiole, Epithelium, Metaplasia						4 [2.0]
Bronchiole, Epithelium, Necrosis						1 [1.0]
Bronchus, Epithelium, Hyperplasia						1 [1.0]
Bronchus, Epithelium, Metaplasia						2 [1.5]
Bronchus, Epithelium, Necrosis						6 [2.7]
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Suppurative						1 [1.0]
Respiratory Epithelium, Necrosis						4 [2.5]
Respiratory Epithelium, Vacuolization Cytoplasmic						3 [1.7]
Squamous Epithelium, Vacuolization Cytoplasmic						2 [2.0]
Turbinates, Atrophy						4 [1.0]
Trachea	(10)	(10)	(10)	(10)	(10)	(10)
Epithelium, Hyperplasia			2 [1.0]		5 [1.0]	8 [1.8]
Epithelium, Metaplasia, Squamous					1 [1.0]	3 [1.0]
Epithelium, Necrosis	1 [1.0]	1 [1.0]				2 [1.0]

## SPECIAL SENSES SYSTEM

None

## URINARY SYSTEM

Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Renal Tubule, Inflammation				1 [1.0]		

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Ureter Vacuolization Cytoplasmic	(0)	(0)	(1) 1 [3.0]	(0)	(0)	(0)

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

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