

**Experiment Number:** 05197-10

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

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

**Test Compound:** 2-Butoxyethanol (ethylene glycol monobutyl ether)

**CAS Number:** 111-76-2

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:48:10

**First Dose M/F:** NA / NA

**Lab:** BNW

<b>C Number:</b>	C62077D
<b>Lock Date:</b>	11/19/1992
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

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B6C3F1 Mouse MALE	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Disposition Summary</b>						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Moribund Sacrifice						2
Natural Death						2
Survivors						
Terminal Sacrifice	10	10	10	10	10	6
Animals Examined Microscopically	10	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Gallbladder	(9)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(7)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(9)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Kupffer Cell, Pigmentation, Hemosiderin						6 (60%)
Necrosis				1 (10%)		
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(10)	(9)	(10)	(10)	(10)
Epithelium, Hyperplasia				1 (10%)		3 (30%)
Inflammation						3 (30%)
Necrosis						2 (20%)
Ulcer						2 (20%)
Stomach, Glandular	(10)	(10)	(9)	(10)	(10)	(10)

**CARDIOVASCULAR SYSTEM**

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

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B6C3F1 Mouse MALE	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Heart	(10)	(0)	(0)	(0)	(0)	(10)
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(1)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(8)	(0)	(0)	(0)	(0)	(9)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(9)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
Hemorrhage						1 (10%)
<b>GENERAL BODY SYSTEM</b>						
Peritoneum	(0)	(0)	(0)	(0)	(0)	(2)
Inflammation, Suppurative						2 (100%)
<b>GENITAL SYSTEM</b>						
Epididymis	(10)	(10)	(10)	(10)	(10)	(10)
Necrosis						1 (10%)
Preputial Gland	(9)	(0)	(0)	(0)	(0)	(10)
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(9)
Testes	(10)	(10)	(10)	(10)	(10)	(10)
Degeneration						3 (30%)
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Bronchial	(9)	(0)	(0)	(0)	(0)	(6)
Lymph Node, Mandibular	(8)	(9)	(6)	(9)	(8)	(9)
Atrophy						1 (11%)
Lymph Node, Mediastinal	(4)	(0)	(0)	(0)	(0)	(4)
Lymph Node, Mesenteric	(10)	(10)	(9)	(10)	(10)	(9)
Atrophy						1 (11%)

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B6C3F1 Mouse MALE	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Atrophy						4 (40%)
Hematopoietic Cell Proliferation				2 (20%)	9 (90%)	6 (60%)
Hyperplasia, Lymphoid	1 (10%)					
Pigmentation, Hemosiderin				10 (100%)	10 (100%)	6 (60%)
Thymus	(10)	(10)	(10)	(10)	(10)	(9)
Atrophy						2 (22%)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(1)	(0)	(0)	(0)	(0)	(0)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
<b>RESPIRATORY SYSTEM</b>						
Larynx	(10)	(0)	(0)	(0)	(0)	(10)
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Bronchiole, Metaplasia, Squamous				1 (10%)		
Hemorrhage	1 (10%)					
Mediastinum, Inflammation, Suppurative						2 (20%)
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(0)	(0)	(0)	(1)	(0)	(0)
Harderian Gland	(0)	(0)	(0)	(0)	(1)	(0)
<b>URINARY SYSTEM</b>						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)

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<b>B6C3F1 Mouse MALE</b>	<b>CONTROL</b>	<b>31 PPM</b>	<b>62.5 PPM</b>	<b>125 PPM</b>	<b>250 PPM</b>	<b>500 PPM</b>
Renal Tubule, Degeneration						4 (40%)
Renal Tubule, Pigmentation, Hemosiderin						5 (50%)
Renal Tubule, Regeneration		1 (10%)				
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

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

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Species/Strain: Mouse/B6C3F1

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B6C3F1 Mouse FEMALE	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Disposition Summary</b>						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Moribund Sacrifice						2
Natural Death						2
Survivors						
Terminal Sacrifice	10	10	10	10	10	6
Animals Examined Microscopically	10	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Gallbladder	(7)	(0)	(0)	(0)	(0)	(9)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Eosinophilic Focus			1 (10%)			
Kupffer Cell, Pigmentation, Hemosiderin					10 (100%)	6 (60%)
Necrosis						1 (10%)
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(10)	(10)	(10)	(10)	(10)
Epithelium, Hyperplasia	1 (10%)	2 (20%)	5 (50%)	9 (90%)	10 (100%)	4 (40%)
Inflammation		1 (10%)		2 (20%)	4 (40%)	7 (70%)
Necrosis						3 (30%)
Stomach, Glandular	(10)	(10)	(10)	(10)	(10)	(10)
Ulcer						1 (10%)

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<b>CARDIOVASCULAR SYSTEM</b>						
Heart	(10)	(0)	(0)	(0)	(0)	(10)
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(8)	(0)	(0)	(0)	(0)	(9)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Clitoral Gland	(10)	(0)	(0)	(0)	(0)	(6)
Ovary	(10)	(0)	(0)	(0)	(0)	(9)
Uterus	(10)	(0)	(0)	(0)	(0)	(10)
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Bronchial	(7)	(0)	(0)	(0)	(0)	(8)
Lymph Node, Mandibular	(8)	(10)	(9)	(5)	(9)	(9)
Lymph Node, Mediastinal	(4)	(0)	(0)	(0)	(0)	(4)
Lymph Node, Mesenteric	(10)	(10)	(10)	(10)	(10)	(9)
Atrophy						2 (22%)
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Atrophy						3 (30%)
Hematopoietic Cell Proliferation					1 (10%)	6 (60%)
Pigmentation, Hemosiderin					10 (100%)	6 (60%)
Pigmentation, Melanin	1 (10%)					
Thymus	(10)	(10)	(10)	(10)	(10)	(10)

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Atrophy						2 (20%)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
Hemorrhage						1 (10%)
<b>RESPIRATORY SYSTEM</b>						
Larynx	(10)	(0)	(0)	(0)	(0)	(10)
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Mediastinum, Inflammation, Suppurative						2 (20%)
Perivascular, Infiltration Cellular, Mononuclear Cl						1 (10%)
Thrombosis						1 (10%)
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(0)	(0)	(0)	(1)	(0)	(0)
<b>URINARY SYSTEM</b>						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Renal Tubule, Degeneration						3 (30%)
Renal Tubule, Pigmentation, Hemosiderin						6 (60%)
Urinary Bladder	(8)	(0)	(0)	(0)	(0)	(9)

\*\* END OF REPORT \*\*

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