

Experiment Number: 99028-03
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

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

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:35:54

First Dose M/F: NA / NA

Lab: BAT

C Number:	C99028
Lock Date:	09/03/2002
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

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F 344/N Rat MALE	0 MG/KG	50 MG/KG	100 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Natural Death						10
Survivors						
Terminal Sacrifice	10	10	10	10	10	
Animals Examined Microscopically	10	10	10	10	10	10
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(10)	(7)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(10)	(9)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(10)	(9)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(10)	(9)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(10)	(8)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(10)	(7)
Liver	(10)	(2)	(1)	(2)	(10)	(10)
Hepatodiaphragmatic Nodule	2 (20%)	2 (100%)	1 (100%)	2 (100%)	1 (10%)	
Inflammation, Chronic	2 (20%)				2 (20%)	
Pancreas	(10)	(0)	(0)	(0)	(10)	(10)
Acinus, Atrophy	1 (10%)					
Salivary Glands	(10)	(0)	(0)	(0)	(10)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(10)	(10)
Inflammation, Chronic						1 (10%)
Stomach, Glandular	(10)	(10)	(10)	(10)	(10)	(10)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(10)	(0)	(0)	(0)	(10)	(10)
Heart	(10)	(10)	(10)	(10)	(10)	(10)
Atrium, Thrombosis						3 (30%)
Cardiomyopathy	10 (100%)	8 (80%)	10 (100%)	10 (100%)	2 (20%)	1 (10%)

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

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F 344/N Rat MALE	0 MG/KG	50 MG/KG	100 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG
Fibrosis						1 (10%)
Infiltration Cellular, Mononuclear CI					7 (70%)	10 (100%)
Mineralization	1 (10%)					
Myocardium, Necrosis						7 (70%)
Myocardium, Vacuolization Cytoplasmic					6 (60%)	10 (100%)
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(10)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(10)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(10)	(10)
Parathyroid Gland	(9)	(0)	(0)	(0)	(10)	(10)
Pituitary Gland	(10)	(0)	(0)	(0)	(10)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(10)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(10)	(0)	(0)	(0)	(10)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(10)	(10)
Prostate	(10)	(0)	(0)	(0)	(10)	(10)
Inflammation, Suppurative						1 (10%)
Seminal Vesicle	(10)	(0)	(0)	(0)	(10)	(10)
Testes	(10)	(0)	(0)	(0)	(10)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(10)	(10)
Lymph Node	(1)	(0)	(0)	(0)	(0)	(0)
Mediastinal, Congestion	1 (100%)					
Lymph Node, Mesenteric	(10)	(10)	(10)	(10)	(10)	(10)
Atrophy						3 (30%)
Congestion						1 (10%)

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Lab: BAT

F 344/N Rat MALE	0 MG/KG	50 MG/KG	100 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG
Necrosis, Lymphoid						9 (90%)
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Atrophy						10 (100%)
Hematopoietic Cell Proliferation			2 (20%)			
Necrosis, Lymphoid						3 (30%)
Thymus	(10)	(10)	(10)	(10)	(10)	(10)
Atrophy						3 (30%)
Hemorrhage						1 (10%)
Necrosis						10 (100%)
INTEGUMENTARY SYSTEM						
Mammary Gland	(8)	(0)	(0)	(0)	(9)	(10)
Skin	(10)	(0)	(0)	(0)	(10)	(10)
SOA Epidermis, Hyperplasia	4 (40%)				4 (40%)	
SOA Epidermis, Inflammation, Suppurative						2 (20%)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(10)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(10)	(10)
Mineralization, Focal	1 (10%)					
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(0)	(0)	(10)	(10)
Alveolar Epith, Hyperplasia, Focal	1 (10%)					
Inflammation, Chronic	2 (20%)				2 (20%)	1 (10%)
Nose	(10)	(10)	(10)	(10)	(10)	(9)
Olfactory Epi, Degeneration						7 (78%)
Trachea	(10)	(0)	(0)	(0)	(10)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(10)	(10)

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

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat MALE	0 MG/KG	50 MG/KG	100 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG
Harderian Gland	(10)	(10)	(10)	(10)	(10)	(10)
Hemorrhage	1 (10%)					
Hyperplasia, Lymphoid	1 (10%)					
Inflammation, Chronic	1 (10%)		1 (10%)		1 (10%)	
Pigmentation, Porphyrin	2 (20%)	4 (40%)	5 (50%)	1 (10%)	5 (50%)	8 (80%)
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Nephropathy	7 (70%)	8 (80%)	8 (80%)	9 (90%)	7 (70%)	2 (20%)
Papilla, Renal Tubule, Mineralization						2 (20%)
Urinary Bladder	(10)	(0)	(0)	(0)	(10)	(10)

END OF MALE DATA

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Species/Strain: Rat/F 344/N

Lab: BAT

F 344/N Rat FEMALE	0 MG/KG	50 MG/KG	100 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Moribund Sacrifice					1	4
Natural Death					1	6
Survivors						
Terminal Sacrifice	10	10	10	10	8	
Animals Examined Microscopically	10	10	10	10	10	10
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(9)	(8)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(9)	(8)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(9)	(7)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(9)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(9)	(9)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(9)	(7)
Liver	(10)	(3)	(0)	(0)	(10)	(10)
Hepatocyte, Periportal, Vacuolization Cytoplasmic					1 (10%)	
Hepatodiaphragmatic Nodule	1 (10%)	3 (100%)			1 (10%)	1 (10%)
Inflammation, Chronic	8 (80%)	1 (33%)			5 (50%)	
Pancreas	(10)	(0)	(0)	(0)	(10)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(10)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(10)	(10)
Stomach, Glandular	(10)	(10)	(10)	(10)	(10)	(10)
Epithelium, Mineralization					1 (10%)	
Erosion, Focal						1 (10%)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(10)	(0)	(0)	(0)	(10)	(10)

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F 344/N Rat FEMALE	0 MG/KG	50 MG/KG	100 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG
Heart	(10)	(10)	(10)	(10)	(10)	(10)
Cardiomyopathy	8 (80%)	6 (60%)	8 (80%)	4 (40%)	3 (30%)	
Infiltration Cellular, Mononuclear CI				7 (70%)	6 (60%)	10 (100%)
Mineralization				1 (10%)		
Myocardium, Necrosis				1 (10%)	1 (10%)	5 (50%)
Myocardium, Vacuolization Cytoplasmic				2 (20%)	5 (50%)	9 (90%)
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(10)	(10)
Hyperplasia, Focal					1 (10%)	
Adrenal Medulla	(10)	(0)	(0)	(0)	(10)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(10)	(10)
Parathyroid Gland	(10)	(0)	(0)	(0)	(10)	(8)
Pituitary Gland	(10)	(0)	(0)	(0)	(10)	(10)
Rathkes Cleft, Cyst					1 (10%)	
Thyroid Gland	(10)	(0)	(0)	(0)	(10)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(0)	(0)	(0)	(10)	(10)
Inflammation, Chronic	1 (10%)					
Ovary	(10)	(1)	(0)	(0)	(10)	(10)
Cyst	2 (20%)	1 (100%)				1 (10%)
Uterus	(10)	(10)	(10)	(10)	(10)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(10)	(10)
Lymph Node, Mesenteric	(10)	(10)	(10)	(9)	(10)	(10)
Atrophy						1 (10%)
Necrosis, Lymphoid					2 (20%)	8 (80%)

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F 344/N Rat FEMALE	0 MG/KG	50 MG/KG	100 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Atrophy					1 (10%)	9 (90%)
Necrosis, Lymphoid					1 (10%)	8 (80%)
Thymus	(10)	(10)	(10)	(10)	(10)	(10)
Atrophy						3 (30%)
Necrosis					2 (20%)	8 (80%)
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(10)	(10)
Skin	(10)	(0)	(0)	(0)	(10)	(10)
SOA Dermis, Fibrosis						1 (10%)
SOA Epidermis, Hyperplasia	4 (40%)				2 (20%)	
SOA Epidermis, Inflammation, Suppurative					2 (20%)	
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(10)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(10)	(10)
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(0)	(0)	(10)	(10)
Inflammation, Acute						1 (10%)
Inflammation, Chronic	2 (20%)					1 (10%)
Metaplasia, Osseous	1 (10%)					
Nose	(10)	(10)	(10)	(10)	(10)	(9)
Olfactory Epi, Degeneration		1 (10%)			3 (30%)	4 (44%)
Olfactory Epi, Inflammation, Acute		1 (10%)				
Trachea	(10)	(0)	(0)	(0)	(10)	(10)
Infiltration Cellular, Polymorphnuclr						1 (10%)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(10)	(10)

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F 344/N Rat FEMALE	0 MG/KG	50 MG/KG	100 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG
Harderian Gland	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic		1 (10%)				
Pigmentation, Porphyrin		4 (40%)	2 (20%)		2 (20%)	4 (40%)
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Cortex, Inflammation, Chronic				1 (10%)		
Cortex, Renal Tubule, Necrosis						1 (10%)
Nephropathy	1 (10%)	1 (10%)	1 (10%)	1 (10%)		
Papilla, Degeneration, Mucoïd				1 (10%)		
Papilla, Mineralization	1 (10%)					
Papilla, Renal Tubule, Mineralization	4 (40%)	6 (60%)	6 (60%)	4 (40%)	4 (40%)	5 (50%)
Renal Tubule, Regeneration						3 (30%)
Urinary Bladder	(10)	(0)	(0)	(0)	(10)	(10)

** END OF REPORT **