

TDMs No. 99028 - 05

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

Date Report Reqsted: 11/12/2007

Test Type: CHRONIC

bis(2-Chloroethoxy)methane

Time Report Reqsted: 14:57:37

Route: SKIN APPLICATION

CAS Number: 111-91-1

First Dose M/F: 09/16/02 / 09/17/02

Species/Strain: RATS/F 344

Lab: BAT

F1_R2

C Number: C99028

Lock Date: 07/12/2005

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

TDMSE Version: 1.9.1

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bis(2-Chloroethoxy)methane

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Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS MALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	21	17	31	20
Natural Death	8	4	5	6
Survivors				
Moribund Sacrifice		1		
Terminal Sacrifice	21	28	14	24
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(50)	(50)
Inflammation		1 [4.0]		
Ulcer		1 [4.0]		
Intestine Large, Cecum	(49)	(50)	(50)	(50)
Edema	1 [3.0]			
Inflammation	1 [3.0]			
Parasite Metazoan		1 [1.0]		
Intestine Large, Colon	(50)	(50)	(50)	(50)
Parasite Metazoan		2 [1.5]		
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Parasite Metazoan	11 [1.5]	5 [1.4]	7 [2.0]	7 [1.4]
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Inflammation				1 [3.0]
Ulcer		1 [2.0]		1 [3.0]
Epithelium, Hyperplasia		1 [2.0]		
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Inflammation		1 [2.0]		
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Liver	(50)	(50)	(50)	(50)
Angiectasis	1 [2.0]	7 [1.0]	3 [1.0]	6 [1.2]
Basophilic Focus	19	19	16	19
Clear Cell Focus	22	24	14	22
Degeneration, Cystic	6 [1.5]	5 [1.4]	10 [1.4]	15 [1.5]
Eosinophilic Focus	10	15	8	11
Fatty Change	19 [1.5]	20 [1.6]	16 [1.6]	20 [1.3]

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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Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS MALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Fibrosis	39 [1.2]	25 [1.3]	23 [1.2]	31 [1.2]
Hematopoietic Cell Proliferation	2 [2.0]			
Hepatodiaphragmatic Nodule	4	5	6	9
Inflammation	32 [1.0]	38 [1.0]	33 [1.0]	41 [1.0]
Mixed Cell Focus	4	10	8	3
Necrosis	4 [2.5]	2 [1.5]	5 [1.8]	3 [2.0]
Thrombosis			2 [2.5]	
Bile Duct, Cyst		1 [1.0]		1 [1.0]
Bile Duct, Hyperplasia	46 [1.9]	46 [1.9]	44 [1.8]	47 [1.8]
Centrilobular, Necrosis	1 [1.0]	4 [2.0]	8 [1.8]	4 [2.5]
Mesentery	(10)	(10)	(9)	(9)
Accessory Spleen	1 [1.0]			
Fat, Necrosis	8 [2.9]	9 [2.2]	8 [2.9]	8 [2.4]
Oral Mucosa	(2)	(0)	(0)	(0)
Inflammation, Granulomatous	1 [3.0]			
Gingival, Cyst	2 [3.0]			
Pancreas	(50)	(50)	(50)	(50)
Acinus, Atrophy	17 [1.8]	21 [1.6]	17 [1.6]	17 [1.5]
Acinus, Hyperplasia	2 [2.0]	1 [2.0]	1 [1.0]	3 [1.7]
Duct, Cyst	11 [1.6]	5 [1.8]	4 [1.8]	5 [1.4]
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Inflammation		2 [3.5]	6 [3.3]	10 [2.6]
Ulcer		2 [3.5]	2 [4.0]	7 [3.0]
Epithelium, Hyperplasia	2 [1.5]	1 [3.0]	1 [2.0]	1 [2.0]
Stomach, Glandular	(50)	(50)	(50)	(50)
Ectopic Tissue	1			
Inflammation	1 [3.0]	2 [2.0]	1 [3.0]	
Mineralization		1 [1.0]		
Ulcer	1 [3.0]	1 [3.0]	1 [3.0]	

CARDIOVASCULAR SYSTEM

Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	46 [1.7]	48 [1.4]	45 [1.2]	49 [1.8]
Fibrosis	50 [1.9]	50 [2.3]	49 [2.6]	49 [2.5]
Inflammation, Chronic Active	1 [2.0]			
Thrombosis	3 [2.3]	1 [2.0]	4 [3.0]	3 [3.3]
Coronary Artery, Inflammation		1 [2.0]		

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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Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS MALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Endothelium, Hyperplasia	1 [2.0]			
Myocardium, Infiltration Cellular, Mononuclear Cell	50 [1.9]	50 [2.3]	49 [2.6]	50 [2.5]
Myocardium, Necrosis	50 [1.0]	50 [1.0]	49 [1.0]	50 [1.0]
Myocardium, Vacuolization Cytoplasmic	50 [1.9]	50 [2.3]	49 [2.6]	50 [2.5]
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Atrophy	1 [3.0]			
Hyperplasia	16 [1.5]	22 [1.4]	13 [1.2]	16 [1.7]
Vacuolization Cytoplasmic	33 [1.3]	38 [1.3]	35 [1.3]	39 [1.6]
Adrenal Medulla	(50)	(50)	(50)	(50)
Angiectasis		1 [2.0]		2 [3.0]
Hemorrhage	1 [3.0]			
Hyperplasia	9 [1.8]	7 [1.3]	8 [1.9]	10 [2.1]
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia	4 [1.3]	9 [1.6]	11 [1.4]	5 [1.6]
Parathyroid Gland	(49)	(44)	(45)	(47)
Hyperplasia		1 [3.0]		
Hyperplasia, Focal				1 [2.0]
Pituitary Gland	(49)	(50)	(50)	(50)
Angiectasis	37 [2.9]	30 [2.8]	26 [2.7]	32 [2.6]
Atrophy	1 [3.0]			
Cyst	6 [1.2]	6 [1.3]	10 [2.0]	8 [1.5]
Pars Distalis, Hyperplasia	13 [2.1]	16 [2.1]	12 [2.1]	17 [2.2]
Thyroid Gland	(50)	(50)	(50)	(50)
Cyst	1 [1.0]	1 [1.0]	1 [2.0]	1 [2.0]
Inflammation		1 [2.0]		
C-cell, Hyperplasia	21 [1.5]	22 [1.3]	23 [1.5]	14 [1.5]
Follicle, Cyst		1		
Follicle, Hyperplasia	1 [2.0]	4 [1.8]	1 [2.0]	2 [1.5]
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				

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FISCHER 344 RATS MALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Epididymis	(50)	(50)	(50)	(50)
Granuloma Sperm	1 [2.0]			
Inflammation	1 [2.0]			1 [1.0]
Penis	(0)	(0)	(1)	(0)
Inflammation			1 [2.0]	
Preputial Gland	(50)	(50)	(50)	(50)
Cyst		3 [2.0]	2 [3.0]	
Hyperplasia			1 [2.0]	2 [2.5]
Inflammation	50 [1.8]	50 [1.8]	47 [1.9]	49 [1.8]
Duct, Ectasia			1 [4.0]	
Prostate	(50)	(50)	(50)	(50)
Hyperplasia	39 [1.2]	41 [1.1]	39 [1.2]	40 [1.2]
Inflammation	44 [1.8]	37 [1.7]	32 [1.8]	42 [1.8]
Inflammation, Suppurative	1 [2.0]			
Seminal Vesicle	(50)	(50)	(50)	(50)
Inflammation	2 [2.0]			2 [3.0]
Testes	(50)	(50)	(50)	(50)
Inflammation, Granulomatous		1 [1.0]		
Necrosis			1 [2.0]	
Germinal Epithelium, Atrophy	2 [4.0]	1 [4.0]	1 [2.0]	
Germinal Epithelium, Mineralization	1 [1.0]	1 [2.0]		2 [2.0]
Tunic, Fibrosis		1 [1.0]		
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Atrophy			4 [3.3]	
Hyperplasia	3 [3.3]	1 [2.0]	4 [3.3]	2 [3.5]
Lymph Node	(4)	(0)	(6)	(5)
Deep Cervical, Ectasia			1 [2.0]	
Deep Cervical, Hyperplasia, Lymphoid			1 [2.0]	1 [2.0]
Mediastinal, Hyperplasia, Lymphoid				1 [2.0]
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Ectasia	1 [3.0]			
Hyperplasia, Lymphoid				1 [1.0]
Inflammation, Chronic Active	1 [1.0]			
Spleen	(50)	(50)	(49)	(50)
Atrophy			3 [1.7]	4 [2.3]
Fibrosis			2 [1.5]	1 [3.0]

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Lab: BAT

FISCHER 344 RATS MALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Hematopoietic Cell Proliferation	24 [1.4]	25 [1.4]	15 [1.9]	24 [1.5]
Infarct			1 [2.0]	
Stromal Hyperplasia			1 [4.0]	
Thymus	(49)	(50)	(50)	(48)
Atrophy	45 [3.5]	50 [3.7]	46 [3.7]	47 [3.8]
Ectopic Parathyroid Gland	1 [1.0]			
Ectopic Thyroid				1 [1.0]
INTEGUMENTARY SYSTEM				
Mammary Gland	(49)	(50)	(50)	(50)
Hyperplasia	13 [1.2]	10 [1.2]	7 [1.1]	12 [1.3]
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion	1 [2.0]	3 [3.0]		
Edema	1 [2.0]			
Hemorrhage		1 [3.0]		
Artery, Site Of Application - Dermis, Inflammation		1 [2.0]		
Control Dermis, Fibrosis			1 [2.0]	
Dermis, Inflammation		1 [2.0]		
Hair Follicle, Site Of Application - Epidermis, Atrophy	1 [4.0]			
Sebaceous Gland, Hyperplasia			1 [2.0]	
Site Of Application - Dermis, Fibrosis		1 [1.0]		
Site Of Application - Dermis, Inflammation	2 [1.0]	2 [1.0]	2 [1.0]	
Site Of Application - Epidermis, Hyperkeratosis		1 [2.0]	1 [1.0]	
Site Of Application - Epidermis, Ulcer	1 [1.0]			
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Osteopetrosis			1 [2.0]	
Joint, Inflammation	2 [1.0]			1 [1.0]
Skeletal Muscle	(1)	(0)	(1)	(0)
NERVOUS SYSTEM				

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FISCHER 344 RATS MALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Brain	(50)	(50)	(50)	(50)
Hemorrhage	1 [3.0]			
Hydrocephalus	17 [2.9]	14 [2.9]	14 [3.0]	14 [3.0]
Hippocampus, Necrosis			1 [2.0]	
Hypothalamus, Compression	17 [3.4]	8 [3.4]	12 [3.5]	14 [3.3]
Thalamus, Necrosis			1 [2.0]	
Spinal Cord	(1)	(1)	(0)	(0)
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Congestion		1 [2.0]		
Inflammation	17 [1.2]	22 [1.2]	20 [1.3]	16 [1.0]
Metaplasia, Osseous	1 [1.0]			
Alveolar Epithelium, Hyperplasia	7 [2.0]	12 [1.5]	9 [1.9]	8 [1.6]
Artery, Hyperplasia		1 [2.0]		
Nose	(50)	(49)	(50)	(49)
Foreign Body	7	12	4	5
Inflammation	27 [1.5]	32 [1.8]	22 [1.6]	18 [1.7]
Polyp, Inflammatory	1 [1.0]			
Glands, Cyst		1 [2.0]	2 [2.0]	1 [1.0]
Olfactory Epithelium, Accumulation, Hyaline Droplet	1 [2.0]	2 [3.0]		
Olfactory Epithelium, Degeneration	5 [1.2]	17 [1.3]	30 [1.3]	48 [1.9]
Olfactory Epithelium, Metaplasia, Respiratory	9 [2.1]	9 [2.0]	3 [1.3]	4 [2.0]
Olfactory Epithelium, Metaplasia, Squamous	1 [1.0]			
Trachea	(50)	(50)	(50)	(50)
Inflammation	1 [2.0]		3 [1.7]	
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)
Cataract	2 [3.0]	1 [3.0]		2 [3.5]
Retina, Atrophy	2 [3.0]	1 [3.0]		2 [3.5]
Sclera, Metaplasia, Osseous	38 [1.6]	35 [1.6]	28 [1.5]	32 [1.5]
Harderian Gland	(50)	(50)	(50)	(50)
Atrophy			1 [1.0]	2 [1.0]

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Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS MALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Hyperplasia		1 [1.0]		1 [1.0]
Inflammation	3 [1.3]	3 [1.0]	2 [1.5]	1 [1.0]
Pigmentation, Porphyrin	1 [2.0]			
Zymbal's Gland	(1)	(0)	(0)	(1)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Fibrosis				1 [3.0]
Infarct		1 [2.0]		
Inflammation				1 [3.0]
Nephropathy	47 [1.8]	48 [1.9]	43 [1.7]	48 [2.1]
Renal Tubule, Cyst		1 [2.0]		
Renal Tubule, Hyperplasia				1 [1.0]
Renal Tubule, Pigmentation, Lipofuscin	1 [3.0]			
Urinary Bladder	(50)	(50)	(50)	(50)
Inflammation				2 [3.5]
Muscularis, Mineralization		1 [1.0]		
Transitional Epithelium, Hyperplasia	1 [2.0]		1 [2.0]	1 [2.0]

*** END OF MALE ***

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Lab: BAT

FISCHER 344 RATS FEMALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	19	18	15	19
Natural Death	12	2	7	13
Survivors				
Terminal Sacrifice	19	30	28	18
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Parasite Metazoan	3 [1.0]	3 [1.0]	2 [2.5]	1 [1.0]
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Parasite Metazoan		4 [3.0]	6 [1.7]	5 [1.8]
Ulcer	1 [2.0]			
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Ulcer	1 [4.0]			
Liver	(50)	(50)	(50)	(50)
Angiectasis	4 [1.0]	5 [1.2]	1 [1.0]	2 [1.0]
Basophilic Focus	41	48	42	30
Clear Cell Focus	9	9	10	5
Degeneration, Cystic		2 [1.0]		
Eosinophilic Focus	5	8	6	6
Fatty Change	9 [1.7]	9 [1.4]	4 [1.5]	9 [1.6]
Fibrosis	5 [1.0]	3 [1.0]	10 [1.0]	2 [1.5]
Hepatodiaphragmatic Nodule	7	6	8	8
Inflammation	40 [1.0]	45 [1.0]	39 [1.1]	33 [1.0]
Mixed Cell Focus	4	10	10	3
Necrosis	2 [1.0]	1 [1.0]	2 [1.5]	1 [1.0]
Bile Duct, Cyst		1 [2.0]	1 [1.0]	
Bile Duct, Hyperplasia	17 [1.3]	18 [1.3]	19 [1.6]	12 [1.6]
Centrilobular, Necrosis	4 [2.5]	3 [3.0]	5 [2.0]	5 [1.8]
Periportal, Cytoplasmic Alteration	1 [2.0]			
Mesentery	(13)	(13)	(17)	(6)

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FISCHER 344 RATS FEMALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Necrosis	1 [3.0]			
Fat, Necrosis	13 [2.5]	12 [2.6]	17 [2.5]	6 [3.0]
Oral Mucosa	(1)	(0)	(0)	(0)
Pancreas	(50)	(50)	(50)	(50)
Hyperplasia		1 [2.0]		
Inflammation	2 [2.5]			1 [1.0]
Acinus, Atrophy	13 [1.4]	12 [1.2]	9 [1.3]	6 [1.3]
Acinus, Hyperplasia	1 [2.0]			
Duct, Cyst	4 [1.8]	6 [1.5]	1 [2.0]	2 [1.0]
Stomach, Forestomach	(50)	(50)	(50)	(50)
Inflammation	6 [3.2]	3 [3.0]	1 [2.0]	2 [3.0]
Ulcer	4 [3.3]	3 [3.0]		1 [2.0]
Epithelium, Hyperplasia	1 [4.0]	2 [2.0]		
Stomach, Glandular	(50)	(50)	(50)	(50)
Fibrosis				1 [2.0]
Inflammation	2 [2.0]			1 [3.0]
Mineralization				2 [1.5]
Ulcer	1 [1.0]	1 [1.0]		2 [2.5]
Tongue	(0)	(0)	(0)	(1)
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	40 [1.2]	45 [1.1]	42 [1.1]	46 [1.6]
Fibrosis	50 [1.5]	50 [2.0]	50 [2.0]	50 [2.3]
Thrombosis	1 [3.0]	1 [3.0]		
Coronary Artery, Inflammation	1 [2.0]			
Myocardium, Infiltration Cellular, Mononuclear Cell	50 [1.5]	50 [2.0]	50 [2.0]	50 [2.3]
Myocardium, Necrosis	50 [1.0]	50 [1.0]	50 [1.0]	50 [1.0]
Myocardium, Vacuolization Cytoplasmic	50 [1.5]	50 [2.0]	50 [2.0]	50 [2.3]
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Angiectasis	1 [3.0]			1 [2.0]
Hemorrhage				2 [2.5]
Hyperplasia	11 [1.7]	26 [1.5]	18 [1.7]	14 [1.6]
Necrosis				7 [2.6]

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

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Lab: BAT

FISCHER 344 RATS FEMALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Vacuolization Cytoplasmic	15 [1.7]	17 [1.5]	21 [1.7]	15 [1.3]
Adrenal Medulla	(50)	(50)	(50)	(50)
Hyperplasia	1 [2.0]	3 [1.3]	3 [1.7]	4 [1.8]
Necrosis	(50)	(50)	1 [3.0]	(50)
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia	10 [1.0]	6 [1.0]	5 [1.0]	6 [1.0]
Parathyroid Gland	(43)	(46)	(48)	(50)
Pituitary Gland	(50)	(50)	(50)	(50)
Angiectasis	32 [2.6]	39 [2.5]	32 [2.3]	26 [2.4]
Atrophy	1 [2.0]			
Cyst	16 [1.4]	21 [1.6]	17 [1.5]	18 [1.4]
Hemorrhage				1 [1.0]
Pars Distalis, Hyperplasia	16 [2.1]	26 [1.8]	19 [2.1]	18 [2.3]
Pars Intermedia, Hyperplasia	1 [2.0]			
Thyroid Gland	(50)	(50)	(50)	(50)
Atrophy			1 [3.0]	
Cyst			1 [1.0]	
C-cell, Hyperplasia	33 [1.5]	38 [1.4]	34 [1.3]	19 [1.2]
Follicle, Hyperplasia		2 [2.0]	3 [1.7]	

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(50)	(50)	(50)	(50)
Cyst	1 [2.0]	2 [2.5]	2 [2.0]	
Hyperplasia	2 [3.0]	6 [2.0]	6 [1.8]	3 [1.0]
Inflammation	32 [1.4]	32 [1.3]	40 [1.4]	23 [1.4]
Ovary	(50)	(50)	(50)	(50)
Atrophy		2 [4.0]	2 [4.0]	
Cyst	5 [2.4]	4 [1.8]	7 [1.7]	5 [2.0]
Bilateral, Cyst			1 [2.0]	
Uterus	(50)	(50)	(50)	(50)
Atrophy	1 [2.0]			
Inflammation, Suppurative	1 [1.0]			
Cervix, Endometrium, Hyperplasia		1 [3.0]		
Cervix, Myometrium, Hyperplasia	1 [3.0]			

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)

Test Type: CHRONIC

Time Report Requested: 14:57:37

Route: SKIN APPLICATION

First Dose M/F: 09/16/02 / 09/17/02

Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS FEMALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Endometrium, Hyperplasia, Cystic Vagina	6 [1.7] (0)	4 [1.8] (0)	4 [1.0] (0)	5 [2.0] (1)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(49)
Atrophy	2 [2.0]			
Hyperplasia	3 [2.7]	1 [2.0]	2 [3.0]	3 [2.7]
Lymph Node	(3)	(1)	(5)	(1)
Deep Cervical, Hyperplasia, Lymphoid			1 [2.0]	
Mediastinal, Ectasia		1 [3.0]		
Mediastinal, Hyperplasia, Lymphoid	1 [1.0]			
Pancreatic, Ectasia	1 [3.0]			
Pancreatic, Hyperplasia, Lymphoid	1 [3.0]			
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Hyperplasia, Lymphoid	1 [1.0]			
Spleen	(50)	(50)	(50)	(50)
Atrophy	3 [1.7]			2 [2.5]
Fibrosis				1 [1.0]
Hematopoietic Cell Proliferation	29 [1.7]	37 [1.4]	34 [1.6]	26 [1.8]
Infarct				1 [3.0]
Thymus	(49)	(50)	(50)	(49)
Atrophy	43 [3.2]	50 [3.5]	47 [3.4]	35 [3.3]
Hemorrhage				1 [3.0]
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(50)	(50)	(50)
Hyperplasia	5 [1.4]		3 [2.0]	2 [3.5]
Inflammation	1 [1.0]			
Skin	(50)	(50)	(50)	(49)
Cyst Epithelial Inclusion			1	
Control Dermis, Inflammation	1 [2.0]			
Control Epidermis, Hyperplasia	1 [2.0]			
Dermis, Inflammation		1 [2.0]	1 [2.0]	
Epidermis, Hyperplasia		1 [2.0]		
Epidermis, Ulcer		1 [2.0]	1 [2.0]	
Sebaceous Gland, Hyperplasia			1 [1.0]	
Site Of Application - Dermis, Fibrosis	3 [1.0]		1 [2.0]	1 [1.0]

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)

Test Type: CHRONIC

bis(2-Chloroethoxy)methane

Time Report Requested: 14:57:37

Route: SKIN APPLICATION

CAS Number: 111-91-1

First Dose M/F: 09/16/02 / 09/17/02

Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS FEMALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Site Of Application - Dermis, Inflammation		2 [1.5]	3 [2.0]	2 [1.5]
Site Of Application - Epidermis, Hyperkeratosis			1 [1.0]	
Site Of Application - Epidermis, Hyperplasia	1 [2.0]	2 [2.5]	5 [1.8]	1 [2.0]
Site Of Application - Epidermis, Ulcer Subcutaneous Tissue, Necrosis	1 [2.0]	1 [2.0]	3 [2.0] 1 [3.0]	1 [2.0]
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Joint, Inflammation	1 [1.0]			3 [1.3]
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Hemorrhage	1 [3.0]			
Hydrocephalus	11 [3.2]	14 [3.0]	8 [3.5]	5 [2.4]
Hippocampus, Necrosis		1 [2.0]		
Hypothalamus, Compression	13 [3.3]	12 [3.6]	8 [4.0]	5 [2.6]
Vein, Infiltration Cellular, Mononuclear Cell		1 [2.0]		
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Congestion	1 [2.0]		2 [2.0]	1 [3.0]
Inflammation	18 [1.1]	31 [1.0]	24 [1.1]	19 [1.1]
Metaplasia, Osseous			1 [1.0]	
Thrombosis	1 [2.0]			
Alveolar Epithelium, Hyperplasia	1 [2.0]	7 [1.6]	7 [1.4]	6 [1.5]
Alveolar Epithelium, Metaplasia, Squamous			3 [1.3]	
Bronchus, Hyperplasia		1 [2.0]		
Nose	(49)	(49)	(50)	(49)
Foreign Body	1	2	2	
Inflammation	10 [1.5]	14 [1.1]	16 [1.3]	6 [1.3]

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)

Test Type: CHRONIC

bis(2-Chloroethoxy)methane

Time Report Requested: 14:57:37

Route: SKIN APPLICATION

CAS Number: 111-91-1

First Dose M/F: 09/16/02 / 09/17/02

Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS FEMALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Glands, Cyst				1 [2.0]
Olfactory Epithelium, Accumulation, Hyaline Droplet		1 [2.0]	1 [2.0]	
Olfactory Epithelium, Degeneration	5 [1.0]	4 [1.3]	18 [1.1]	49 [2.3]
Olfactory Epithelium, Metaplasia, Respiratory			1 [1.0]	1 [1.0]
Olfactory Epithelium, Metaplasia, Squamous				1 [1.0]
Respiratory Epithelium, Degeneration			1 [1.0]	
Trachea	(50)	(50)	(50)	(50)
Glands, Cyst		1 [2.0]		
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)
Cataract	1 [3.0]	2 [3.0]	3 [3.0]	5 [2.8]
Retina, Atrophy	2 [2.0]	3 [2.7]	4 [2.8]	5 [3.0]
Sclera, Metaplasia, Osseous	7 [1.6]	2 [2.0]	6 [1.3]	4 [1.3]
Harderian Gland	(50)	(50)	(50)	(50)
Hyperplasia			1 [1.0]	
Inflammation	5 [1.0]	11 [1.0]	9 [1.0]	10 [1.2]
Capillary, Hyperplasia		1 [1.0]		
Lacrimal Gland	(0)	(1)	(0)	(0)
Hyperplasia		1 [2.0]		
Zymbal's Gland	(0)	(0)	(0)	(1)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Hydronephrosis	1 [3.0]	1 [3.0]	1 [3.0]	1 [2.0]
Inflammation, Suppurative		1 [3.0]		
Nephropathy	30 [1.3]	30 [1.2]	34 [1.1]	25 [1.2]
Renal Tubule, Cyst	1 [2.0]			
Urinary Bladder	(50)	(50)	(49)	(50)
Inflammation	1 [3.0]			
Transitional Epithelium, Hyperplasia			1 [2.0]	

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)

TDMS No. 99028 - 05

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

Date Report Requested: 11/12/2007

Test Type: CHRONIC

bis(2-Chloroethoxy)methane

Time Report Requested: 14:57:37

Route: SKIN APPLICATION

CAS Number: 111-91-1

First Dose M/F: 09/16/02 / 09/17/02

Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS FEMALE

0 MG/KG

75 MG/KG

150 MG/KG

300 MG/KG

*** END OF REPORT ***

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)