

TDMS No. 99028 - 05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: RATS/F 344

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

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007
Time Report Requested: 14:57:37
First Dose M/F: 09/16/02 / 09/17/02
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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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 (2%)		
Ulcer		1 (2%)		
Intestine Large, Cecum	(49)	(50)	(50)	(50)
Edema	1 (2%)			
Inflammation	1 (2%)			
Parasite Metazoan		1 (2%)		
Intestine Large, Colon	(50)	(50)	(50)	(50)
Parasite Metazoan		2 (4%)		
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Parasite Metazoan	11 (22%)	5 (10%)	7 (14%)	7 (14%)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Inflammation				1 (2%)
Ulcer		1 (2%)		1 (2%)
Epithelium, Hyperplasia		1 (2%)		
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Inflammation		1 (2%)		
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Liver	(50)	(50)	(50)	(50)
Angiectasis	1 (2%)	7 (14%)	3 (6%)	6 (12%)
Basophilic Focus	19 (38%)	19 (38%)	16 (32%)	19 (38%)
Clear Cell Focus	22 (44%)	24 (48%)	14 (28%)	22 (44%)
Degeneration, Cystic	6 (12%)	5 (10%)	10 (20%)	15 (30%)
Eosinophilic Focus	10 (20%)	15 (30%)	8 (16%)	11 (22%)
Fatty Change	19 (38%)	20 (40%)	16 (32%)	20 (40%)
Fibrosis	39 (78%)	25 (50%)	23 (46%)	31 (62%)
Hematopoietic Cell Proliferation	2 (4%)			
Hepatodiaphragmatic Nodule	4 (8%)	5 (10%)	6 (12%)	9 (18%)
Inflammation	32 (64%)	38 (76%)	33 (66%)	41 (82%)
Mixed Cell Focus	4 (8%)	10 (20%)	8 (16%)	3 (6%)

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

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FISCHER 344 RATS MALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Necrosis	4 (8%)	2 (4%)	5 (10%)	3 (6%)
Thrombosis			2 (4%)	
Bile Duct, Cyst		1 (2%)		1 (2%)
Bile Duct, Hyperplasia	46 (92%)	46 (92%)	44 (88%)	47 (94%)
Centrilobular, Necrosis	1 (2%)	4 (8%)	8 (16%)	4 (8%)
Mesentery	(10)	(10)	(9)	(9)
Accessory Spleen	1 (10%)			
Fat, Necrosis	8 (80%)	9 (90%)	8 (89%)	8 (89%)
Oral Mucosa	(2)	(0)	(0)	(0)
Inflammation, Granulomatous	1 (50%)			
Gingival, Cyst	2 (100%)			
Pancreas	(50)	(50)	(50)	(50)
Acinus, Atrophy	17 (34%)	21 (42%)	17 (34%)	17 (34%)
Acinus, Hyperplasia	2 (4%)	1 (2%)	1 (2%)	3 (6%)
Duct, Cyst	11 (22%)	5 (10%)	4 (8%)	5 (10%)
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Inflammation		2 (4%)	6 (12%)	10 (20%)
Ulcer		2 (4%)	2 (4%)	7 (14%)
Epithelium, Hyperplasia	2 (4%)	1 (2%)	1 (2%)	1 (2%)
Stomach, Glandular	(50)	(50)	(50)	(50)
Ectopic Tissue	1 (2%)			
Inflammation	1 (2%)	2 (4%)	1 (2%)	
Mineralization		1 (2%)		
Ulcer	1 (2%)	1 (2%)	1 (2%)	

CARDIOVASCULAR SYSTEM

Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	46 (92%)	48 (96%)	45 (90%)	49 (98%)
Fibrosis	50 (100%)	50 (100%)	49 (98%)	49 (98%)
Inflammation, Chronic Active	1 (2%)			
Thrombosis	3 (6%)	1 (2%)	4 (8%)	3 (6%)
Coronary Artery, Inflammation		1 (2%)		
Endothelium, Hyperplasia	1 (2%)			
Myocardium, Infiltration Cellular, Mononuclear Cell	50 (100%)	50 (100%)	49 (98%)	50 (100%)
Myocardium, Necrosis	50 (100%)	50 (100%)	49 (98%)	50 (100%)
Myocardium, Vacuolization Cytoplasmic	50 (100%)	50 (100%)	49 (98%)	50 (100%)

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Atrophy	1 (2%)			

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FISCHER 344 RATS MALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Hyperplasia	16 (32%)	22 (44%)	13 (26%)	16 (32%)
Vacuolization Cytoplasmic	33 (66%)	38 (76%)	35 (70%)	39 (78%)
Adrenal Medulla	(50)	(50)	(50)	(50)
Angiectasis		1 (2%)		2 (4%)
Hemorrhage	1 (2%)			
Hyperplasia	9 (18%)	7 (14%)	8 (16%)	10 (20%)
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia	4 (8%)	9 (18%)	11 (22%)	5 (10%)
Parathyroid Gland	(49)	(44)	(45)	(47)
Hyperplasia		1 (2%)		
Hyperplasia, Focal				1 (2%)
Pituitary Gland	(49)	(50)	(50)	(50)
Angiectasis	37 (76%)	30 (60%)	26 (52%)	32 (64%)
Atrophy	1 (2%)			
Cyst	6 (12%)	6 (12%)	10 (20%)	8 (16%)
Pars Distalis, Hyperplasia	13 (27%)	16 (32%)	12 (24%)	17 (34%)
Thyroid Gland	(50)	(50)	(50)	(50)
Cyst	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Inflammation		1 (2%)		
C-cell, Hyperplasia	21 (42%)	22 (44%)	23 (46%)	14 (28%)
Follicle, Cyst		1 (2%)		
Follicle, Hyperplasia	1 (2%)	4 (8%)	1 (2%)	2 (4%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(50)	(50)	(50)	(50)
Granuloma Sperm	1 (2%)			
Inflammation	1 (2%)			1 (2%)
Penis	(0)	(0)	(1)	(0)
Inflammation			1 (100%)	
Preputial Gland	(50)	(50)	(50)	(50)
Cyst		3 (6%)	2 (4%)	
Hyperplasia			1 (2%)	2 (4%)
Inflammation	50 (100%)	50 (100%)	47 (94%)	49 (98%)
Duct, Ectasia			1 (2%)	
Prostate	(50)	(50)	(50)	(50)
Hyperplasia	39 (78%)	41 (82%)	39 (78%)	40 (80%)
Inflammation	44 (88%)	37 (74%)	32 (64%)	42 (84%)
Inflammation, Suppurative	1 (2%)			
Seminal Vesicle	(50)	(50)	(50)	(50)

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Inflammation	2 (4%)			2 (4%)
Testes	(50)	(50)	(50)	(50)
Inflammation, Granulomatous Necrosis		1 (2%)	1 (2%)	
Germinal Epithelium, Atrophy	2 (4%)	1 (2%)	1 (2%)	
Germinal Epithelium, Mineralization Tunic, Fibrosis	1 (2%)	1 (2%)		2 (4%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Atrophy			4 (8%)	
Hyperplasia	3 (6%)	1 (2%)	4 (8%)	2 (4%)
Lymph Node	(4)	(0)	(6)	(5)
Deep Cervical, Ectasia			1 (17%)	
Deep Cervical, Hyperplasia, Lymphoid			1 (17%)	1 (20%)
Mediastinal, Hyperplasia, Lymphoid				1 (20%)
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Ectasia	1 (2%)			
Hyperplasia, Lymphoid				1 (2%)
Inflammation, Chronic Active	1 (2%)			
Spleen	(50)	(50)	(49)	(50)
Atrophy			3 (6%)	4 (8%)
Fibrosis			2 (4%)	1 (2%)
Hematopoietic Cell Proliferation	24 (48%)	25 (50%)	15 (31%)	24 (48%)
Infarct			1 (2%)	
Stromal Hyperplasia			1 (2%)	
Thymus	(49)	(50)	(50)	(48)
Atrophy	45 (92%)	50 (100%)	46 (92%)	47 (98%)
Ectopic Parathyroid Gland	1 (2%)			
Ectopic Thyroid				1 (2%)
INTEGUMENTARY SYSTEM				
Mammary Gland	(49)	(50)	(50)	(50)
Hyperplasia	13 (27%)	10 (20%)	7 (14%)	12 (24%)
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion	1 (2%)	3 (6%)		
Edema	1 (2%)			
Hemorrhage		1 (2%)		
Artery, Site Of Application - Dermis, Inflammation		1 (2%)		
Control Dermis, Fibrosis			1 (2%)	
Dermis, Inflammation		1 (2%)		

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FISCHER 344 RATS MALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Hair Follicle, Site Of Application - Epidermis, Atrophy	1 (2%)			
Sebaceous Gland, Hyperplasia			1 (2%)	
Site Of Application - Dermis, Fibrosis		1 (2%)		
Site Of Application - Dermis, Inflammation	2 (4%)	2 (4%)	2 (4%)	
Site Of Application - Epidermis, Hyperkeratosis		1 (2%)	1 (2%)	
Site Of Application - Epidermis, Ulcer	1 (2%)			
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Osteopetrosis			1 (2%)	
Joint, Inflammation	2 (4%)			1 (2%)
Skeletal Muscle	(1)	(0)	(1)	(0)
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Hemorrhage	1 (2%)			
Hydrocephalus	17 (34%)	14 (28%)	14 (28%)	14 (28%)
Hippocampus, Necrosis			1 (2%)	
Hypothalamus, Compression	17 (34%)	8 (16%)	12 (24%)	14 (28%)
Thalamus, Necrosis			1 (2%)	
Spinal Cord	(1)	(1)	(0)	(0)
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Congestion		1 (2%)		
Inflammation	17 (34%)	22 (44%)	20 (40%)	16 (32%)
Metaplasia, Osseous	1 (2%)			
Alveolar Epithelium, Hyperplasia	7 (14%)	12 (24%)	9 (18%)	8 (16%)
Artery, Hyperplasia		1 (2%)		
Nose	(50)	(49)	(50)	(49)
Foreign Body	7 (14%)	12 (24%)	4 (8%)	5 (10%)
Inflammation	27 (54%)	32 (65%)	22 (44%)	18 (37%)
Polyp, Inflammatory	1 (2%)			
Glands, Cyst		1 (2%)	2 (4%)	1 (2%)
Olfactory Epithelium, Accumulation, Hyaline Droplet	1 (2%)	2 (4%)		
Olfactory Epithelium, Degeneration	5 (10%)	17 (35%)	30 (60%)	48 (98%)
Olfactory Epithelium, Metaplasia, Respiratory	9 (18%)	9 (18%)	3 (6%)	4 (8%)

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FISCHER 344 RATS MALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Olfactory Epithelium, Metaplasia, Squamous	1 (2%)			
Trachea	(50)	(50)	(50)	(50)
Inflammation	1 (2%)		3 (6%)	
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)
Cataract	2 (4%)	1 (2%)		2 (4%)
Retina, Atrophy	2 (4%)	1 (2%)		2 (4%)
Sclera, Metaplasia, Osseous	38 (76%)	35 (70%)	28 (56%)	32 (64%)
Harderian Gland	(50)	(50)	(50)	(50)
Atrophy			1 (2%)	2 (4%)
Hyperplasia		1 (2%)		1 (2%)
Inflammation	3 (6%)	3 (6%)	2 (4%)	1 (2%)
Pigmentation, Porphyrin	1 (2%)			
Zymbal's Gland	(1)	(0)	(0)	(1)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Fibrosis				1 (2%)
Infarct		1 (2%)		
Inflammation				1 (2%)
Nephropathy	47 (94%)	48 (96%)	43 (86%)	48 (96%)
Renal Tubule, Cyst		1 (2%)		
Renal Tubule, Hyperplasia				1 (2%)
Renal Tubule, Pigmentation, Lipofuscin	1 (2%)			
Urinary Bladder	(50)	(50)	(50)	(50)
Inflammation				2 (4%)
Muscularis, Mineralization		1 (2%)		
Transitional Epithelium, Hyperplasia	1 (2%)		1 (2%)	1 (2%)

*** END OF MALE ***

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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 (6%)	3 (6%)	2 (4%)	1 (2%)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Parasite Metazoan		4 (8%)	6 (12%)	5 (10%)
Ulcer	1 (2%)			
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Ulcer	1 (2%)			
Liver	(50)	(50)	(50)	(50)
Angiectasis	4 (8%)	5 (10%)	1 (2%)	2 (4%)
Basophilic Focus	41 (82%)	48 (96%)	42 (84%)	30 (60%)
Clear Cell Focus	9 (18%)	9 (18%)	10 (20%)	5 (10%)
Degeneration, Cystic		2 (4%)		
Eosinophilic Focus	5 (10%)	8 (16%)	6 (12%)	6 (12%)
Fatty Change	9 (18%)	9 (18%)	4 (8%)	9 (18%)
Fibrosis	5 (10%)	3 (6%)	10 (20%)	2 (4%)
Hepatodiaphragmatic Nodule	7 (14%)	6 (12%)	8 (16%)	8 (16%)
Inflammation	40 (80%)	45 (90%)	39 (78%)	33 (66%)
Mixed Cell Focus	4 (8%)	10 (20%)	10 (20%)	3 (6%)
Necrosis	2 (4%)	1 (2%)	2 (4%)	1 (2%)
Bile Duct, Cyst		1 (2%)	1 (2%)	
Bile Duct, Hyperplasia	17 (34%)	18 (36%)	19 (38%)	12 (24%)
Centrilobular, Necrosis	4 (8%)	3 (6%)	5 (10%)	5 (10%)
Periportal, Cytoplasmic Alteration	1 (2%)			
Mesentery	(13)	(13)	(17)	(6)
Necrosis	1 (8%)			
Fat, Necrosis	13 (100%)	12 (92%)	17 (100%)	6 (100%)
Oral Mucosa	(1)	(0)	(0)	(0)
Pancreas	(50)	(50)	(50)	(50)
Hyperplasia		1 (2%)		

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FISCHER 344 RATS FEMALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Inflammation	2 (4%)			1 (2%)
Acinus, Atrophy	13 (26%)	12 (24%)	9 (18%)	6 (12%)
Acinus, Hyperplasia	1 (2%)			
Duct, Cyst	4 (8%)	6 (12%)	1 (2%)	2 (4%)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Inflammation	6 (12%)	3 (6%)	1 (2%)	2 (4%)
Ulcer	4 (8%)	3 (6%)		1 (2%)
Epithelium, Hyperplasia	1 (2%)	2 (4%)		
Stomach, Glandular	(50)	(50)	(50)	(50)
Fibrosis				1 (2%)
Inflammation	2 (4%)			1 (2%)
Mineralization				2 (4%)
Ulcer	1 (2%)	1 (2%)		2 (4%)
Tongue	(0)	(0)	(0)	(1)

CARDIOVASCULAR SYSTEM

Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	40 (80%)	45 (90%)	42 (84%)	46 (92%)
Fibrosis	50 (100%)	50 (100%)	50 (100%)	50 (100%)
Thrombosis	1 (2%)	1 (2%)		
Coronary Artery, Inflammation	1 (2%)			
Myocardium, Infiltration Cellular, Mononuclear Cell	50 (100%)	50 (100%)	50 (100%)	50 (100%)
Myocardium, Necrosis	50 (100%)	50 (100%)	50 (100%)	50 (100%)
Myocardium, Vacuolization Cytoplasmic	50 (100%)	50 (100%)	50 (100%)	50 (100%)

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Angiectasis	1 (2%)			1 (2%)
Hemorrhage				2 (4%)
Hyperplasia	11 (22%)	26 (52%)	18 (36%)	14 (28%)
Necrosis				7 (14%)
Vacuolization Cytoplasmic	15 (30%)	17 (34%)	21 (42%)	15 (30%)
Adrenal Medulla	(50)	(50)	(50)	(50)
Hyperplasia	1 (2%)	3 (6%)	3 (6%)	4 (8%)
Necrosis			1 (2%)	
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia	10 (20%)	6 (12%)	5 (10%)	6 (12%)
Parathyroid Gland	(43)	(46)	(48)	(50)
Pituitary Gland	(50)	(50)	(50)	(50)
Angiectasis	32 (64%)	39 (78%)	32 (64%)	26 (52%)
Atrophy	1 (2%)			

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

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FISCHER 344 RATS FEMALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Cyst	16 (32%)	21 (42%)	17 (34%)	18 (36%)
Hemorrhage				1 (2%)
Pars Distalis, Hyperplasia	16 (32%)	26 (52%)	19 (38%)	18 (36%)
Pars Intermedia, Hyperplasia	1 (2%)			
Thyroid Gland	(50)	(50)	(50)	(50)
Atrophy			1 (2%)	
Cyst			1 (2%)	
C-cell, Hyperplasia	33 (66%)	38 (76%)	34 (68%)	19 (38%)
Follicle, Hyperplasia		2 (4%)	3 (6%)	

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(50)	(50)	(50)	(50)
Cyst	1 (2%)	2 (4%)	2 (4%)	
Hyperplasia	2 (4%)	6 (12%)	6 (12%)	3 (6%)
Inflammation	32 (64%)	32 (64%)	40 (80%)	23 (46%)
Ovary	(50)	(50)	(50)	(50)
Atrophy		2 (4%)	2 (4%)	
Cyst	5 (10%)	4 (8%)	7 (14%)	5 (10%)
Bilateral, Cyst			1 (2%)	
Uterus	(50)	(50)	(50)	(50)
Atrophy	1 (2%)			
Inflammation, Suppurative	1 (2%)			
Cervix, Endometrium, Hyperplasia		1 (2%)		
Cervix, Myometrium, Hyperplasia	1 (2%)			
Endometrium, Hyperplasia, Cystic	6 (12%)	4 (8%)	4 (8%)	5 (10%)
Vagina	(0)	(0)	(0)	(1)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(49)
Atrophy	2 (4%)			
Hyperplasia	3 (6%)	1 (2%)	2 (4%)	3 (6%)
Lymph Node	(3)	(1)	(5)	(1)
Deep Cervical, Hyperplasia, Lymphoid			1 (20%)	
Mediastinal, Ectasia		1 (100%)		
Mediastinal, Hyperplasia, Lymphoid	1 (33%)			
Pancreatic, Ectasia	1 (33%)			
Pancreatic, Hyperplasia, Lymphoid	1 (33%)			

TDMS No. 99028 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

PO3: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007
 Time Report Requested: 14:57:37
 First Dose M/F: 09/16/02 / 09/17/02
 Lab: BAT

FISCHER 344 RATS FEMALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Hyperplasia, Lymphoid	1 (2%)			
Spleen	(50)	(50)	(50)	(50)
Atrophy	3 (6%)			2 (4%)
Fibrosis				1 (2%)
Hematopoietic Cell Proliferation	29 (58%)	37 (74%)	34 (68%)	26 (52%)
Infarct				1 (2%)
Thymus	(49)	(50)	(50)	(49)
Atrophy	43 (88%)	50 (100%)	47 (94%)	35 (71%)
Hemorrhage				1 (2%)
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(50)	(50)	(50)
Hyperplasia	5 (10%)		3 (6%)	2 (4%)
Inflammation	1 (2%)			
Skin	(50)	(50)	(50)	(49)
Cyst Epithelial Inclusion			1 (2%)	
Control Dermis, Inflammation	1 (2%)			
Control Epidermis, Hyperplasia	1 (2%)			
Dermis, Inflammation		1 (2%)	1 (2%)	
Epidermis, Hyperplasia		1 (2%)		
Epidermis, Ulcer		1 (2%)	1 (2%)	
Sebaceous Gland, Hyperplasia			1 (2%)	
Site Of Application - Dermis, Fibrosis	3 (6%)		1 (2%)	1 (2%)
Site Of Application - Dermis, Inflammation		2 (4%)	3 (6%)	2 (4%)
Site Of Application - Epidermis, Hyperkeratosis			1 (2%)	
Site Of Application - Epidermis, Hyperplasia	1 (2%)	2 (4%)	5 (10%)	1 (2%)
Site Of Application - Epidermis, Ulcer	1 (2%)	1 (2%)	3 (6%)	1 (2%)
Subcutaneous Tissue, Necrosis			1 (2%)	
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Joint, Inflammation	1 (2%)			3 (6%)
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Hemorrhage	1 (2%)			
Hydrocephalus	11 (22%)	14 (28%)	8 (16%)	5 (10%)
Hippocampus, Necrosis		1 (2%)		

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

TDMS No. 99028 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

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

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007
 Time Report Requested: 14:57:37
 First Dose M/F: 09/16/02 / 09/17/02
 Lab: BAT

FISCHER 344 RATS FEMALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Hypothalamus, Compression Vein, Infiltration Cellular, Mononuclear Cell	13 (26%)	12 (24%) 1 (2%)	8 (16%)	5 (10%)
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Congestion	1 (2%)		2 (4%)	1 (2%)
Inflammation	18 (36%)	31 (62%)	24 (48%)	19 (38%)
Metaplasia, Osseous			1 (2%)	
Thrombosis	1 (2%)			
Alveolar Epithelium, Hyperplasia	1 (2%)	7 (14%)	7 (14%)	6 (12%)
Alveolar Epithelium, Metaplasia, Squamous			3 (6%)	
Bronchus, Hyperplasia		1 (2%)		
Nose	(49)	(49)	(50)	(49)
Foreign Body	1 (2%)	2 (4%)	2 (4%)	
Inflammation	10 (20%)	14 (29%)	16 (32%)	6 (12%)
Glands, Cyst				1 (2%)
Olfactory Epithelium, Accumulation, Hyaline Droplet		1 (2%)	1 (2%)	
Olfactory Epithelium, Degeneration	5 (10%)	4 (8%)	18 (36%)	49 (100%)
Olfactory Epithelium, Metaplasia, Respiratory			1 (2%)	1 (2%)
Olfactory Epithelium, Metaplasia, Squamous				1 (2%)
Respiratory Epithelium, Degeneration			1 (2%)	
Trachea	(50)	(50)	(50)	(50)
Glands, Cyst		1 (2%)		
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)
Cataract	1 (2%)	2 (4%)	3 (6%)	5 (10%)
Retina, Atrophy	2 (4%)	3 (6%)	4 (8%)	5 (10%)
Sclera, Metaplasia, Osseous	7 (14%)	2 (4%)	6 (12%)	4 (8%)
Harderian Gland	(50)	(50)	(50)	(50)
Hyperplasia			1 (2%)	
Inflammation	5 (10%)	11 (22%)	9 (18%)	10 (20%)
Capillary, Hyperplasia		1 (2%)		
Lacrimal Gland	(0)	(1)	(0)	(0)
Hyperplasia		1 (100%)		
Zymbal's Gland	(0)	(0)	(0)	(1)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)

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

TDMS No. 99028 - 05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: RATS/F 344

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

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007
Time Report Requested: 14:57:37
First Dose M/F: 09/16/02 / 09/17/02
Lab: BAT

FISCHER 344 RATS FEMALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Hydronephrosis	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Inflammation, Suppurative		1 (2%)		
Nephropathy	30 (60%)	30 (60%)	34 (68%)	25 (50%)
Renal Tubule, Cyst	1 (2%)			
Urinary Bladder	(50)	(50)	(49)	(50)
Inflammation	1 (2%)			
Transitional Epithelium, Hyperplasia			1 (2%)	

*** END OF REPORT ***