

Experiment Number: 88031-03
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Test Compound: Dipropylene glycol
CAS Number: 25265-71-8

Date Report Requested: 10/23/2014
Time Report Requested: 13:15:42
First Dose M/F: NA / NA
Lab: AD LITTLE

C Number:	C88031
Lock Date:	06/11/1992
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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First Dose M/F: NA / NA

Lab: AD LITTLE

F 344/N Rat MALE	VEHICLE CONTROL	0.5%	1.0%	2.0%	4.0%	8.0%
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
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)	(2)	(10)	(10)	(10)	(10)
Atypical Focus, Multiple						8 [3.1]
Congestion				1 [1.0]		
Fatty Change				9 [1.0]	10 [2.2]	10 [2.8]
Fibrosis, Focal						1 [1.0]
Hepatodiaphragmatic Nodule					1	
Hepatodiaphragmatic Nodule, Multiple		1				
Necrosis, Focal					4 [1.3]	
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Acinus, Atrophy, Focal	1 [1.0]					
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(1)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
Tooth	(0)	(0)	(0)	(0)	(0)	(1)

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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F 344/N Rat MALE	VEHICLE CONTROL	0.5%	1.0%	2.0%	4.0%	8.0%
Dentine, Degeneration						1 [3.0]
CARDIOVASCULAR SYSTEM						
Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	7 [1.4]					
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)	(10)
Capsule, Fibrosis, Focal	1 [2.0]					
Hypertrophy		7 [1.3]	5 [1.0]	6 [1.0]	6 [1.5]	10 [2.2]
Vacuolization Cytoplasmic, Focal						1 [1.0]
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(9)	(0)	(0)	(0)	(0)	(8)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Hypospermia						6 [3.3]
Preputial Gland	(10)	(0)	(0)	(0)	(10)	(10)
Atrophy						5 [2.0]
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Subacute	2 [2.0]					
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Depletion Cellular						2 [2.5]
Testes	(10)	(0)	(0)	(0)	(10)	(10)

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F 344/N Rat MALE	VEHICLE CONTROL	0.5%	1.0%	2.0%	4.0%	8.0%
Atrophy						10 [3.3]
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node	(0)	(0)	(0)	(1)	(2)	(0)
Lumbar, Pigmentation, Multifocal				1 [1.0]		
Mediastinal, Hemorrhage					1 [3.0]	
Renal, Hemorrhage				1 [3.0]	1 [3.0]	
Lymph Node, Mandibular	(10)	(1)	(1)	(0)	(1)	(10)
Hemorrhage	4 [2.0]		1 [1.0]		1 [1.0]	4 [1.8]
Hyperplasia, Lymphoid						1 [2.0]
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
Hemorrhage						3 [1.0]
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(8)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(10)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(0)	(0)	(3)	(10)
Alveolar Epith, Hyperplasia, Focal	1 [2.0]					
Hemorrhage, Focal					1 [1.0]	
Inflammation, Subacute, Focal					2 [2.0]	
Nose	(10)	(0)	(0)	(0)	(10)	(10)

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Lab: AD LITTLE

F 344/N Rat MALE	VEHICLE CONTROL	0.5%	1.0%	2.0%	4.0%	8.0%
Fungus	1 [2.0]				1 [2.0]	
Hemorrhage					1 [2.0]	
Inflammation, Acute	1 [2.0]				1 [2.0]	
Olfactory Epi, Degeneration, Focal						10 [3.1]
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Infiltration Cellular, Lymphocyte	1 [1.0]	1 [1.0]	1 [1.0]	2 [1.0]	6 [1.0]	4 [1.0]
Renal Tubule, Casts Protein			3 [1.0]	4 [1.0]	10 [1.3]	10 [1.8]
Renal Tubule, Hemorrhage						1 [1.0]
Renal Tubule, Regeneration	6 [1.0]	2 [1.0]	7 [1.0]	4 [1.0]	9 [1.2]	8 [1.0]
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

END OF MALE DATA

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

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Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
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)	(0)	(1)	(3)	(10)	(10)
Atypical Focus						1 [2.0]
Developmental Malformation, Focal	1 [2.0]					
Fatty Change						10 [2.0]
Hepatodiaphragmatic Nodule	1			2	1 [3.0]	1
Hepatodiaphragmatic Nodule, Multiple			1 [3.0]			
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Acinus, Atrophy, Focal	2 [1.5]					1 [2.0]
Ectopic Liver, Focal						1 [1.0]
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(10)	(0)	(0)	(0)	(0)	(9)

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F 344/N Rat FEMALE	VEHICLE CONTROL	0.5%	1.0%	2.0%	4.0%	8.0%
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy						1 [1.0]
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)	(10)
Hyperplasia, Focal	1 [2.0]					
Hypertrophy		8 [1.3]	10 [1.6]	10 [1.4]	10 [1.7]	9 [1.1]
Adrenal Medulla	(10)	(0)	(0)	(1)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(8)	(0)	(0)	(0)	(0)	(8)
Pituitary Gland	(10)	(0)	(1)	(0)	(0)	(10)
Pars Distalis, Hyperplasia, Focal			1 [2.0]			
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(0)	(0)	(0)	(0)	(9)
Ovary	(10)	(0)	(3)	(0)	(1)	(10)
Cyst					1 [3.0]	
Uterus	(10)	(1)	(1)	(3)	(3)	(10)
Atrophy						2 [2.0]
Dilatation	1 [3.0]	1 [3.0]	1 [2.0]	3 [1.7]	2 [2.0]	1 [3.0]
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node	(1)	(0)	(1)	(2)	(1)	(0)
Bronchial, Hemorrhage	1 [1.0]					
Mediastinal, Hemorrhage			1 [2.0]	2 [1.5]		
Renal, Hemorrhage					1 [2.0]	

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F 344/N Rat FEMALE	VEHICLE CONTROL	0.5%	1.0%	2.0%	4.0%	8.0%
Lymph Node, Mandibular Hemorrhage	(10) 2 [2.0]	(1)	(1) 1 [2.0]	(2) 2 [2.0]	(0)	(10) 1 [2.0]
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Ectopic Tissue						1
Thymus Hemorrhage	(10) 1 [1.0]	(2)	(1) 1 [1.0]	(0)	(1)	(10)
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(1)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(10)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Lung Hemorrhage, Focal	(10) 3 [1.0]	(0)	(0)	(0)	(0)	(10) 1 [1.0]
Infiltration Cellular, Lymphocyte	2 [2.0]					
Inflammation, Subacute, Focal	1 [1.0]					
Nose	(10)	(0)	(0)	(0)	(10)	(10)
Olfactory Epi, Degeneration, Focal						10 [3.1]
Respirat Epith, Degeneration, Focal						1 [2.0]
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)

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F 344/N Rat FEMALE	VEHICLE CONTROL	0.5%	1.0%	2.0%	4.0%	8.0%
Infiltration Cellular, Lymphocyte						2 [1.0]
Renal Tubule, Casts Protein						8 [1.0]
Renal Tubule, Regeneration						4 [1.0]
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

**** END OF REPORT ****

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