

Experiment Number: 88124-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

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

Test Compound: Indium phosphide

CAS Number: 22398-80-7

Date Report Requested: 10/22/2014

Time Report Requested: 07:28:24

First Dose M/F: NA / NA

Lab: BNW

C Number:	C88124
Lock Date:	01/24/1996
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	CONTROL	1.0 MG/M3	3.0 MG/M3	10.0 MG/M3	30.0 MG/M3	100.0 MG/M3
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Natural Death						1
Survivors						
Terminal Sacrifice	10	10	10	10	10	9
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)	(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)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(9)
Liver	(10)	(1)	(1)	(1)	(0)	(10)
Bile Duct, Hyperplasia						2 [1.0]
Centrilobular, Hepatocyte, Atrophy						6 [1.3]
Centrilobular, Hepatocyte, Necrosis						5 [1.0]
Eosinophilic Focus						1
Hematopoietic Cell Proliferation						1 [1.0]
Hepatodiaphragmatic Nodule	1	1	1	1		4
Infiltration Cellular, Mononuclear Cl						1 [1.0]
Pigmentation, Hemosiderin						2 [1.0]
Mesentery	(0)	(0)	(0)	(1)	(1)	(0)
Fat, Necrosis				1 [2.0]	1 [2.0]	
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Acinus, Atrophy						1 [2.0]

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F 344/N Rat MALE	CONTROL	1.0 MG/M3	3.0 MG/M3	10.0 MG/M3	30.0 MG/M3	100.0 MG/M3
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						
Heart	(10)	(10)	(10)	(10)	(10)	(10)
Cardiomyopathy	6 [1.0]	7 [1.0]	6 [1.0]	3 [1.0]	5 [1.0]	2 [1.0]
Hypertrophy						8 [1.0]
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)	(10)
Zona Fascult, Vacuolization Cytoplasmic						10 [3.1]
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(9)	(0)	(0)	(0)	(0)	(9)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(9)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(10)	(10)	(10)	(10)	(10)	(10)
Degeneration						10 [2.8]
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Prostate	(10)	(10)	(10)	(10)	(10)	(10)
Atrophy						10 [2.4]
Seminal Vesicle	(10)	(10)	(10)	(10)	(10)	(9)
Atrophy						9 [2.8]
Testes	(10)	(10)	(10)	(10)	(10)	(10)
Germinal Epith, Degeneration						5 [2.0]

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F 344/N Rat MALE	CONTROL	1.0 MG/M3	3.0 MG/M3	10.0 MG/M3	30.0 MG/M3	100.0 MG/M3
Mineralization			1 [1.0]			
Sertoli Cell, Degeneration			1 [1.0]			
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(10)	(10)	(10)	(10)	(10)
Hyperplasia						10 [3.0]
Lymph Node, Bronchial	(9)	(10)	(8)	(10)	(10)	(9)
Hyperplasia		5 [1.2]	4 [2.0]	3 [2.0]	6 [2.0]	3 [2.3]
Pigmentation		9 [1.2]	8 [1.4]	10 [1.3]	10 [1.8]	9 [2.9]
Lymph Node, Mandibular	(10)	(0)	(0)	(0)	(8)	(10)
Atrophy						6 [2.5]
Lymph Node, Mediastinal	(9)	(5)	(8)	(10)	(8)	(10)
Hyperplasia		3 [2.0]	7 [2.0]	8 [2.0]	6 [2.0]	8 [2.4]
Pigmentation		4 [1.0]	8 [1.4]	9 [1.8]	7 [2.0]	9 [3.2]
Lymph Node, Mesenteric	(10)	(10)	(10)	(10)	(10)	(8)
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Hematopoietic Cell Proliferation						10 [2.1]
Thymus	(10)	(10)	(10)	(10)	(10)	(9)
Atrophy						8 [3.0]
Hemorrhage	1 [2.0]					
INTEGUMENTARY SYSTEM						
Mammary Gland	(7)	(0)	(0)	(0)	(0)	(5)
Skin	(10)	(1)	(0)	(0)	(0)	(10)
Ulcer		1 [3.0]				
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)

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RESPIRATORY SYSTEM						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body		10 [1.1]	10 [1.6]	10 [1.7]	10 [2.0]	9 [1.3]
Inflammation, Chronic			5 [1.4]	8 [1.4]	9 [1.3]	
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Alveolar Epith, Hyperplasia		10 [2.0]	10 [2.6]	10 [3.0]	10 [3.1]	10 [3.6]
Alveolus, Infiltration Cellular, Histiocyte	4 [1.0]					
Alveolus, Proteinosis		10 [3.6]	10 [3.9]	10 [3.9]	10 [4.0]	10 [4.0]
Foreign Body		10 [1.0]	10 [1.5]	10 [2.0]	10 [2.0]	10 [3.0]
Inflammation, Chronic Active		10 [2.0]	10 [2.6]	10 [3.0]	10 [3.0]	10 [2.9]
Interstitial, Fibrosis			10 [1.2]	10 [2.0]	9 [2.0]	10 [3.0]
Serosa, Hemorrhage	1 [3.0]					
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body		1 [1.0]	1 [1.0]	8 [1.0]	8 [1.0]	10 [1.0]
Trachea	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body			1 [1.0]	2 [1.0]	5 [1.0]	8 [1.0]
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Nephropathy	7 [1.0]	4 [1.0]	5 [1.0]	1 [1.0]	4 [1.0]	10 [3.2]
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

END OF MALE DATA

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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)	(1)	(2)	(1)	(2)	(10)
Centrilobular, Hepatocyte, Atrophy						8 [1.8]
Centrilobular, Hepatocyte, Necrosis						9 [1.3]
Hepatodiaphragmatic Nodule	1	1	2	1	2	7
Necrosis						1 [2.0]
Pigmentation, Hemosiderin						6 [1.3]
Mesentery	(0)	(1)	(1)	(0)	(0)	(0)
Fat, Necrosis		1 [3.0]	1 [3.0]			
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
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						
Heart	(10)	(10)	(10)	(10)	(10)	(10)

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F 344/N Rat FEMALE	CONTROL	1.0 MG/M3	3.0 MG/M3	10.0 MG/M3	30.0 MG/M3	100.0 MG/M3
Cardiomyopathy Hypertrophy	3 [1.0]	1 [1.0]	1 [1.0]	2 [1.0]	3 [1.0]	10 [1.0]
ENDOCRINE SYSTEM						
Adrenal Cortex Hemorrhage	(10)	(10)	(10)	(10)	(10)	(10)
Adrenal Cortex Zona Fascult, Vacuolization Cytoplasmic					1 [2.0]	4 [2.5]
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(9)	(0)	(0)	(0)	(0)	(3)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(0)	(0)	(0)	(0)	(10)
Clitoral Gland Inflammation, Chronic	1 [2.0]					
Ovary	(10)	(10)	(10)	(10)	(10)	(10)
Ovary Atrophy						10 [1.9]
Ovary Cyst				1 [2.0]	1 [2.0]	
Ovary Periovarn Tiss, Cyst			1 [3.0]			
Uterus	(10)	(10)	(10)	(10)	(10)	(10)
Uterus Atrophy						10 [2.8]
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(10)	(10)	(10)	(10)	(10)
Bone Marrow Hyperplasia					3 [2.3]	10 [2.6]
Bone Marrow Inflammation, Granulomatous	2 [1.0]	1 [1.0]	1 [2.0]	1 [1.0]		
Lymph Node, Bronchial	(7)	(9)	(10)	(10)	(10)	(9)

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F 344/N Rat FEMALE	CONTROL	1.0 MG/M3	3.0 MG/M3	10.0 MG/M3	30.0 MG/M3	100.0 MG/M3
Hyperplasia		7 [2.0]	7 [1.9]	9 [1.6]	10 [2.2]	5 [1.2]
Pigmentation		8 [1.1]	10 [1.8]	9 [1.8]	10 [2.1]	9 [2.8]
Lymph Node, Mandibular Atrophy	(9)	(0)	(0)	(0)	(9)	(9)
Lymph Node, Mediastinal Atrophy	(7)	(9)	(8)	(5)	(9)	(8)
Hyperplasia		8 [2.0]	8 [2.0]	4 [2.3]	5 [2.2]	7 [2.4]
Pigmentation		8 [1.3]	8 [1.8]	5 [1.8]	7 [1.7]	8 [3.0]
Lymph Node, Mesenteric Inflammation, Granulomatous	(10)	(9)	(10)	(10)	(10)	(9)
Spleen Hematopoietic Cell Proliferation	(10)	(10)	(10)	(10)	(10)	(10)
Thymus Atrophy	(10)	(10)	(10)	(10)	(10)	(9)
						9 [3.8]
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body		10 [1.3]	10 [1.5]	10 [1.6]	9 [1.7]	9 [1.0]
Hyperplasia						1 [1.0]
Inflammation, Acute						1 [1.0]
Inflammation, Chronic		2 [1.0]	6 [1.3]	9 [1.2]	9 [1.3]	

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F 344/N Rat FEMALE	CONTROL	1.0 MG/M3	3.0 MG/M3	10.0 MG/M3	30.0 MG/M3	100.0 MG/M3
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Alveolar Epith, Hyperplasia		10 [2.0]	10 [2.4]	10 [2.3]	10 [2.3]	10 [3.3]
Alveolus, Infiltration Cellular, Histiocyte	3 [1.0]					
Alveolus, Proteinosis		10 [3.8]	10 [4.0]	10 [4.0]	10 [4.0]	10 [4.0]
Foreign Body		9 [1.0]	10 [2.0]	10 [2.1]	10 [2.9]	10 [3.0]
Inflammation, Chronic Active		10 [2.0]	10 [2.4]	10 [2.4]	10 [2.3]	10 [3.0]
Interstitium, Fibrosis			10 [1.3]	10 [2.0]	10 [1.8]	10 [3.3]
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body		3 [1.0]	2 [1.0]	7 [1.0]	9 [1.0]	10 [1.0]
Inflammation, Chronic		1 [1.0]		1 [2.0]	3 [1.3]	
Nasolacrim Dct, Inflammation, Acute				1 [3.0]		
Trachea	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body				3 [1.0]	7 [1.0]	7 [1.0]
SPECIAL SENSES SYSTEM						
Harderian Gland	(1)	(0)	(0)	(0)	(0)	(0)
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Mineralization	10 [1.2]	8 [1.8]	9 [1.4]	9 [1.8]	8 [1.9]	7 [1.3]
Nephropathy	1 [1.0]			1 [1.0]	1 [1.0]	10 [2.4]
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

**** END OF REPORT ****

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