

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:40:55

First Dose M/F: NA / NA

Lab: BNW

C Number:

C20516

Lock Date:

05/16/2007

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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B6C3F1 Mouse MALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
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)
Gallbladder	(8)	(0)	(0)	(0)	(0)	(8)
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)	(0)	(0)	(0)	(10)
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Necrosis						1 [2.0]
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	(0)	(0)	(0)	(0)	(0)	(2)
Heart	(10)	(0)	(0)	(0)	(0)	(10)
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(9)

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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B6C3F1 Mouse MALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(7)	(0)	(0)	(0)	(0)	(6)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(8)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(0)	(0)	(0)	(0)	(10)
Hypoplasia						1 [3.0]
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Bronchial	(6)	(0)	(0)	(0)	(0)	(8)
Lymph Node, Mandibular	(7)	(0)	(0)	(0)	(0)	(6)
Lymph Node, Mediastinal	(5)	(0)	(0)	(0)	(0)	(2)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(9)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
INTEGUMENTARY SYSTEM						
Skin	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic Active	1 [2.0]					
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						

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B6C3F1 Mouse MALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic Active				2 [1.0]	3 [1.0]	1 [1.0]
Metaplasia, Squamous		10 [4.0]	10 [4.0]	10 [4.0]	10 [4.0]	10 [4.0]
Squam Epithel, Hyperplasia				6 [1.0]	10 [1.0]	9 [1.0]
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Arteriole, Hypertrophy						1 [2.0]
Bronchiole, Hyperplasia					10 [1.0]	10 [2.0]
Infiltration Cellular, Histiocyte				1 [1.0]	10 [1.0]	10 [1.8]
Perivascular, Inflammation, Chronic Active		1 [1.0]		2 [1.0]	10 [1.0]	10 [1.8]
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Olfactory Epi, Accumulation, Hyaline Droplet		1 [1.0]	2 [1.0]	7 [1.1]	10 [1.5]	10 [2.1]
Respirat Epith, Accumulation, Hyaline Droplet		9 [1.0]	10 [1.0]	10 [1.0]	10 [1.6]	10 [2.0]
Trachea	(10)	(10)	(10)	(10)	(10)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(1)	(1)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Cyst	1 [3.0]					
Nephropathy	2 [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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

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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)
Gallbladder	(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)	(0)	(0)	(1)	(10)
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)	(0)	(0)	(0)	(0)	(10)
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(5)	(0)	(0)	(0)	(0)	(9)

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Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(8)	(0)	(0)	(0)	(0)	(10)
Ovary	(10)	(0)	(0)	(0)	(1)	(10)
Cyst					1 [3.0]	
Uterus	(10)	(0)	(0)	(0)	(0)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Bronchial	(6)	(0)	(0)	(0)	(0)	(9)
Lymph Node, Mandibular	(6)	(0)	(0)	(0)	(0)	(7)
Lymph Node, Mediastinal	(2)	(0)	(0)	(0)	(0)	(4)
Lymph Node, Mesenteric	(9)	(0)	(0)	(0)	(0)	(9)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
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)	(9)	(10)

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B6C3F1 Mouse FEMALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Inflammation, Chronic Active						1 [1.0]
Metaplasia, Squamous		10 [3.7]	10 [4.0]	10 [4.0]	9 [4.0]	10 [4.0]
Squam Epithel, Hyperplasia				9 [1.0]	8 [1.0]	8 [1.0]
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Arteriole, Hypertrophy			1 [3.0]			
Bronchiole, Hyperplasia					2 [1.0]	10 [2.0]
Infiltration Cellular, Histiocyte					9 [1.0]	10 [1.6]
Perivascular, Inflammation, Chronic Active			1 [2.0]		7 [1.0]	10 [1.7]
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Cyst	1 [2.0]					
Olfactory Epi, Accumulation, Hyaline Droplet	1 [2.0]	2 [1.0]	4 [1.0]	9 [1.3]	10 [1.6]	10 [2.4]
Respirat Epith, Accumulation, Hyaline Droplet	1 [2.0]	10 [1.0]	10 [1.0]	10 [1.3]	10 [1.9]	10 [2.1]
Trachea	(10)	(10)	(10)	(10)	(10)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(1)	(1)	(0)	(2)	(10)
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Nephropathy	1 [1.0]					1 [1.0]
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

**** END OF REPORT ****

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

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