

TDMS No. 20515 - 01

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

Date Report Requested: 10/21/2008

Test Type: 90-DAY

Metal working fluids (CIMSTAR 3800)

Time Report Requested: 07:18:15

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: CIMSTAR3800

First Dose M/F: 06/12/06 / 06/12/06

Species/Strain: RATS/F344/N Tac

Lab: BNW

F1_RD

C Number: C20515
Lock Date: 04/04/2007
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.0.0

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Species/Strain: RATS/F344/N Tac

Lab: BNW

Fischer 344-Taconic RATS 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						
Liver	(10)	(2)	(1)	(0)	(1)	(10)
Hepatodiaphragmatic Nodule	1	2	1		1	
Mesentery	(1)	(0)	(0)	(0)	(1)	(0)
Fat, Necrosis	1 [2.0]				1 [2.0]	
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Atrophy	1 [1.0]					
CARDIOVASCULAR SYSTEM						
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	6 [1.0]					6 [1.0]
ENDOCRINE SYSTEM						
None						
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic Active	1 [1.0]					2 [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)

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Fischer 344-Taconic RATS MALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
HEMATOPOIETIC SYSTEM						
None						
INTEGUMENTARY SYSTEM						
None						
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic Active	1 [1.0]	9 [1.1]	10 [1.3]	10 [1.5]	10 [2.0]	10 [2.5]
Metaplasia, Squamous		10 [3.1]	10 [3.9]	10 [4.0]	10 [4.0]	10 [4.0]
Squamous Epithelium, Hyperplasia		6 [1.0]	5 [1.0]	10 [1.3]	10 [1.6]	10 [1.7]
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic Active	10 [1.7]	9 [1.1]	10 [1.6]	10 [1.3]	10 [1.3]	10 [1.3]
Metaplasia, Osseous				1 [1.0]	1 [1.0]	
Alveolus, Infiltration Cellular, Histiocyte					7 [1.0]	10 [1.0]
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body		1				1
Goblet Cell, Hyperplasia		10 [1.3]	10 [1.6]	10 [1.7]	10 [1.8]	10 [1.9]
Olfactory Epithelium, Accumulation, Hyaline Droplet	1 [1.0]	10 [3.0]	10 [3.0]	10 [3.0]	10 [3.0]	10 [3.0]
Olfactory Epithelium, Inflammation, Suppurative		10 [1.2]	10 [1.3]	10 [1.3]	10 [1.6]	10 [1.7]
Olfactory Epithelium, Necrosis						1 [1.0]
Respiratory Epithelium, Accumulation, Hyaline Droplet		10 [2.6]	10 [1.8]	10 [2.4]	10 [2.8]	10 [2.8]
Respiratory Epithelium, Hyperplasia						1 [1.0]
Respiratory Epithelium, Inflammation,		10 [1.2]	10 [1.3]	10 [1.3]	10 [1.6]	10 [1.7]

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Fischer 344-Taconic RATS MALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Suppurative Trachea Metaplasia, Squamous	(10)	(10)	(10)	(10)	(10)	(10) 1 [1.0]
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
Kidney Nephropathy	(10) 9 [1.0]	(0)	(0)	(0)	(0)	(10) 7 [1.0]

*** END OF MALE ***

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Lab: BNW

Fischer 344-Taconic RATS FEMALE	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						
Liver	(10)	(4)	(0)	(3)	(1)	(10)
Hepatodiaphragmatic Nodule		4		3	1	1
Inflammation, Granulomatous	3 [1.0]					6 [1.2]
Mesentery	(0)	(0)	(0)	(1)	(0)	(0)
Fat, Hemorrhage				1 [2.0]		
Oral Mucosa	(1)	(0)	(0)	(0)	(0)	(0)
Inflammation, Acute	1 [2.0]					
CARDIOVASCULAR SYSTEM						
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	1 [1.0]					2 [1.0]
ENDOCRINE SYSTEM						
None						
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Ovary	(10)	(0)	(0)	(0)	(2)	(10)
Cyst	2 [2.0]				2 [2.0]	

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Fischer 344-Taconic RATS FEMALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
HEMATOPOIETIC SYSTEM						
None						
INTEGUMENTARY SYSTEM						
None						
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic Active		10 [1.0]	10 [1.1]	10 [1.6]	10 [1.7]	10 [2.2]
Metaplasia, Squamous		10 [2.9]	10 [3.4]	10 [4.0]	10 [4.0]	10 [4.0]
Squamous Epithelium, Hyperplasia		9 [1.1]	7 [1.0]	10 [1.4]	9 [1.3]	10 [1.7]
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic Active	10 [1.6]	10 [1.1]	10 [1.5]	9 [1.2]	10 [1.3]	10 [1.3]
Metaplasia, Osseous		1 [1.0]				
Alveolus, Infiltration Cellular, Histiocyte					10 [1.0]	10 [1.0]
Arteriole, Inflammation, Chronic Active				1 [1.0]		
Bronchiole, Hyperplasia				1 [2.0]		
Perivascular, Inflammation, Chronic Active				1 [1.0]		
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Goblet Cell, Hyperplasia		8 [1.5]	10 [1.5]	9 [1.6]	10 [1.7]	10 [1.8]
Olfactory Epithelium, Accumulation, Hyaline Droplet		10 [2.8]	10 [3.0]	10 [2.9]	10 [3.0]	10 [3.0]
Olfactory Epithelium, Inflammation, Suppurative		9 [1.0]	10 [1.1]	10 [1.3]	10 [1.6]	10 [1.4]

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Respiratory Epithelium, Accumulation, Hyaline Droplet		10 [2.6]	10 [2.8]	10 [2.6]	10 [2.8]	10 [2.7]
Respiratory Epithelium, Inflammation, Suppurative		9 [1.0]	10 [1.1]	10 [1.3]	10 [1.6]	10 [1.4]
Respiratory Epithelium, Metaplasia, Squamous						1 [1.0]
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Pelvis, Inflammation, Acute						1 [1.0]
Transitional Epithelium, Hyperplasia						1 [2.0]

*** END OF REPORT ***

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