

**TDMS No.** 20516 - 01

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** RATS/F344/N Tac

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

Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 08/25/2008

**Time Report Requested:** 10:19:53

**First Dose M/F:** 08/14/06 / 08/14/06

**Lab:** BNW

F1\_RD

**C Number:** C20516  
**Lock Date:** 05/16/2007  
**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

Fischer 344-Taconic RATS MALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
<b>Disposition Summary</b>						
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
<b>ALIMENTARY SYSTEM</b>						
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Arteriole, Inflammation, Chronic Active	2 (20%)					2 (20%)
Liver	(10)	(1)	(0)	(1)	(0)	(10)
Hepatodiaphragmatic Nodule Inflammation, Chronic Active	7 (70%)	1 (100%)		1 (100%)		1 (10%) 4 (40%)
<b>CARDIOVASCULAR SYSTEM</b>						
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	9 (90%)					8 (80%)
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Hyperplasia						1 (10%)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic Active	1 (10%)					
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic Active						1 (10%)
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Hyperplasia, Focal	1 (10%)					

Fischer 344-Taconic RATS MALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
<b>HEMATOPOIETIC SYSTEM</b>						
Lymph Node, Mandibular Ectasia	(9)	(0)	(0)	(0)	(0)	(9)
Hyperplasia	1 (11%)					1 (11%)
Lymph Node, Mediastinal Congestion	(10)	(0)	(0)	(0)	(1)	(10)
					1 (100%)	
<b>INTEGUMENTARY SYSTEM</b>						
None						
<b>MUSCULOSKELETAL SYSTEM</b>						
None						
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
Meninges, Inflammation, Focal, Chronic Active	1 (10%)					1 (10%)
<b>RESPIRATORY SYSTEM</b>						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Erosion	2 (20%)		2 (20%)	1 (10%)		
Inflammation, Acute	4 (40%)					
Inflammation, Chronic Active		6 (60%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Metaplasia, Squamous		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Mineralization				1 (10%)		
Ulcer	2 (20%)					
Squamous Epithelium, Hyperplasia			4 (40%)	10 (100%)	10 (100%)	10 (100%)
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Cyst	1 (10%)					
Inflammation, Granulomatous	1 (10%)					
Inflammation, Chronic Active	9 (90%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Metaplasia, Osseous				1 (10%)		2 (20%)
Alveolus, Infiltration Cellular, Histiocyte		2 (20%)			10 (100%)	10 (100%)
Arteriole, Mineralization	2 (20%)					2 (20%)
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Goblet Cell, Hyperplasia		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Olfactory Epithelium, Accumulation, Hyaline Droplet		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)

Fischer 344-Taconic RATS MALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Olfactory Epithelium, Inflammation, Suppurative		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Respiratory Epithelium, Accumulation, Hyaline Droplet		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Respiratory Epithelium, Inflammation, Suppurative		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Trachea	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic Active	1 (10%)					1 (10%)
<b>SPECIAL SENSES SYSTEM</b>						
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic Active	2 (20%)					1 (10%)
<b>URINARY SYSTEM</b>						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Nephropathy	7 (70%)					6 (60%)

\*\*\* END OF MALE \*\*\*

Fischer 344-Taconic RATS FEMALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
<b>Disposition Summary</b>						
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
<b>ALIMENTARY SYSTEM</b>						
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Arteriole, Inflammation, Chronic Active						1 (10%)
Liver	(10)	(5)	(2)	(1)	(1)	(10)
Basophilic Focus						1 (10%)
Hepatodiaphragmatic Nodule		5 (100%)	2 (100%)	1 (100%)	1 (100%)	2 (20%)
Inflammation, Chronic Active	8 (80%)					8 (80%)
Necrosis, Focal, Chronic						1 (10%)
Mesentery	(1)	(0)	(0)	(0)	(0)	(0)
Fat, Necrosis	1 (100%)					
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Atrophy	2 (20%)					
<b>CARDIOVASCULAR SYSTEM</b>						
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	2 (20%)					1 (10%)
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(0)	(1)	(0)	(1)	(10)
Accessory Adrenal Cortical Nodule						1 (10%)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Ovary	(10)	(1)	(0)	(1)	(1)	(10)

Fischer 344-Taconic RATS FEMALE	0 mg/m3	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Cyst Uterus Endometrium, Hyperplasia	(10)	1 (100%) (0)	(0)	1 (100%) (0)	1 (100%) (0)	2 (20%) (10) 1 (10%)
<b>HEMATOPOIETIC SYSTEM</b>						
None						
<b>INTEGUMENTARY SYSTEM</b>						
None						
<b>MUSCULOSKELETAL SYSTEM</b>						
None						
<b>NERVOUS SYSTEM</b>						
None						
<b>RESPIRATORY SYSTEM</b>						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic Active	1 (10%)	9 (90%)	9 (90%)	10 (100%)	10 (100%)	10 (100%)
Metaplasia, Squamous		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Squamous Epithelium, Hyperplasia		6 (60%)	4 (40%)	10 (100%)	10 (100%)	10 (100%)
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic Active	10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)	9 (90%)
Metaplasia, Osseous				2 (20%)	1 (10%)	
Alveolus, Infiltration Cellular, Histiocyte			1 (10%)		8 (80%)	10 (100%)
Arteriole, Mineralization						1 (10%)
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic Active	1 (10%)					
Goblet Cell, Hyperplasia		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Olfactory Epithelium, Accumulation, Hyaline Droplet		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Olfactory Epithelium, Inflammation, Suppurative		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Respiratory Epithelium, Accumulation, Hyaline Droplet		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Respiratory Epithelium, Inflammation,		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)

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Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

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

Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 08/25/2008

Time Report Requested: 10:19:53

First Dose M/F: 08/14/06 / 08/14/06

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
Suppurative Trachea Inflammation, Chronic Active	(10)	(10)	(10)	(10)	(10) 2 (20%)	(10) 1 (10%)
<b>SPECIAL SENSES SYSTEM</b>						
Harderian Gland Inflammation, Chronic Active	(10) 1 (10%)	(0)	(0)	(0)	(0)	(10) 2 (20%)
<b>URINARY SYSTEM</b>						
Kidney Nephropathy	(10)	(0)	(0)	(0)	(0)	(10) 1 (10%)

\*\*\* END OF REPORT \*\*\*