

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

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

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S.

F1_R2

Date Report Requested: 08/18/2006

Time Report Requested: 14:33:15

First Dose M/F: 10/11/04 / 10/12/04

Lab: BNW

C Number: C20303

Lock Date: 06/01/2005

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

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Species/Strain: RATS/F 344

Pathologist: KOOISTRA, L. - GRUMBEIN, S.

Lab: BNW

FISCHER 344 RATS MALE	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm
Disposition Summary					
Animals Initially in Study	10	10	10	10	10
Early Deaths					
Survivors					
Terminal Sacrifice	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10
ALIMENTARY SYSTEM					
Liver	(10)	(10)	(10)	(10)	(10)
Clear Cell Focus	1 (10%)				
Hepatodiaphragmatic Nodule		1 (10%)	1 (10%)		
Vacuolization Cytoplasmic					
Centrilobular, Cytoplasmic Alteration	1 (10%)	1 (10%)	6 (60%)	10 (100%)	10 (100%)
Mesentery	(1)	(0)	(0)	(0)	(0)
Fat, Necrosis	1 (100%)				
CARDIOVASCULAR SYSTEM					
Heart	(10)	(0)	(0)	(0)	(0)
Cardiomyopathy	5 (50%)				
ENDOCRINE SYSTEM					
None					
GENERAL BODY SYSTEM					
None					
GENITAL SYSTEM					
None					
HEMATOPOIETIC SYSTEM					

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

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Species/Strain: RATS/F 344

Pathologist: KOOISTRA, L. - GRUMBEIN, S.

Lab: BNW

FISCHER 344 RATS MALE	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm
None					
INTEGUMENTARY SYSTEM					
Skin	(10)	(0)	(0)	(0)	(0)
Subcutaneous Tissue, Inflammation, Granulomatous, Focal	1 (10%)				
MUSCULOSKELETAL SYSTEM					
None					
NERVOUS SYSTEM					
None					
RESPIRATORY SYSTEM					
Lung	(10)	(10)	(10)	(10)	(10)
Inflammation, Acute	1 (10%)				
Inflammation, Chronic Active			1 (10%)		
Nose	(10)	(10)	(10)	(10)	(10)
Fibrosis					1 (10%)
Goblet Cell, Hyperplasia	1 (10%)				
Olfactory Epithelium, Atrophy		4 (40%)	10 (100%)	10 (100%)	10 (100%)
Olfactory Epithelium, Mineralization		10 (100%)	10 (100%)	10 (100%)	10 (100%)
Olfactory Epithelium, Necrosis		2 (20%)	6 (60%)	9 (90%)	7 (70%)
Turbinates, Atrophy			10 (100%)	10 (100%)	10 (100%)
SPECIAL SENSES SYSTEM					
None					
URINARY SYSTEM					
Kidney	(10)	(10)	(10)	(10)	(10)
Nephropathy	6 (60%)	3 (30%)	4 (40%)	4 (40%)	3 (30%)

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Species/Strain: RATS/F 344

Pathologist: KOOISTRA, L. - GRUMBEIN, S.

Lab: BNW

FISCHER 344 RATS MALE

100 ppm

Disposition Summary

Animals Initially in Study	10
Early Deaths	
Survivors	
Terminal Sacrifice	10
Animals Examined Microscopically	10

ALIMENTARY SYSTEM

Liver	(10)
Clear Cell Focus	
Hepatodiaphragmatic Nodule	
Vacuolization Cytoplasmic	1 (10%)
Centrilobular, Cytoplasmic Alteration	10 (100%)
Mesentery	(0)
Fat, Necrosis	

CARDIOVASCULAR SYSTEM

Heart	(10)
Cardiomyopathy	3 (30%)

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

None

HEMATOPOIETIC SYSTEM

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Lab: BNW

FISCHER 344 RATS MALE

100 ppm

None

INTEGUMENTARY SYSTEM

Skin	(9)
Subcutaneous Tissue, Inflammation, Granulomatous, Focal	

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

Lung	(10)
Inflammation, Acute	1 (10%)
Inflammation, Chronic Active	
Nose	(10)
Fibrosis	
Goblet Cell, Hyperplasia	
Olfactory Epithelium, Atrophy	10 (100%)
Olfactory Epithelium, Mineralization	10 (100%)
Olfactory Epithelium, Necrosis	10 (100%)
Turbinate, Atrophy	10 (100%)

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

Kidney	(10)
Nephropathy	1 (10%)

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100 ppm

*** END OF MALE ***

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FISCHER 344 RATS FEMALE	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm
Disposition Summary					
Animals Initially in Study	10	10	10	10	10
Early Deaths					
Survivors					
Terminal Sacrifice	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10
ALIMENTARY SYSTEM					
Liver	(10)	(10)	(10)	(10)	(10)
Hepatodiaphragmatic Nodule			1 (10%)		2 (20%)
Inflammation, Granulomatous		1 (10%)		1 (10%)	1 (10%)
Vacuolization Cytoplasmic					10 (100%)
Mesentery	(0)	(0)	(0)	(0)	(0)
Fat, Hemorrhage					
Fat, Necrosis					
Pancreas	(10)	(0)	(0)	(0)	(0)
Atrophy	1 (10%)				
CARDIOVASCULAR SYSTEM					
Heart	(10)	(0)	(0)	(0)	(0)
Cardiomyopathy	1 (10%)				
ENDOCRINE SYSTEM					
None					
GENERAL BODY SYSTEM					
None					
GENITAL SYSTEM					
None					

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Pathologist: KOOISTRA, L. - GRUMBEIN, S.

Lab: BNW

FISCHER 344 RATS FEMALE	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm
HEMATOPOIETIC SYSTEM					
None					
INTEGUMENTARY SYSTEM					
None					
MUSCULOSKELETAL SYSTEM					
None					
NERVOUS SYSTEM					
None					
RESPIRATORY SYSTEM					
Larynx	(10)	(0)	(0)	(0)	(0)
Respiratory Epithelium, Inflammation, Acute					
Lung	(10)	(10)	(10)	(10)	(10)
Inflammation, Acute	2 (20%)				
Nose	(10)	(10)	(10)	(10)	(10)
Fibrosis					1 (10%)
Olfactory Epithelium, Atrophy		2 (20%)	10 (100%)	10 (100%)	10 (100%)
Olfactory Epithelium, Mineralization		5 (50%)	9 (90%)	10 (100%)	10 (100%)
Olfactory Epithelium, Necrosis		1 (10%)	3 (30%)	6 (60%)	10 (100%)
Turbinates, Atrophy			10 (100%)	10 (100%)	10 (100%)
SPECIAL SENSES SYSTEM					
Harderian Gland	(10)	(0)	(0)	(0)	(0)
Hyperplasia					
URINARY SYSTEM					
Kidney	(10)	(10)	(10)	(10)	(10)
Nephropathy				2 (20%)	

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Lab: BNW

FISCHER 344 RATS FEMALE

100 ppm

Disposition Summary

Animals Initially in Study	10
Early Deaths	
Survivors	
Terminal Sacrifice	10
Animals Examined Microscopically	10

ALIMENTARY SYSTEM

Liver	(10)
Hepatodiaphragmatic Nodule	1 (10%)
Inflammation, Granulomatous	1 (10%)
Vacuolization Cytoplasmic	10 (100%)
Mesentery	(2)
Fat, Hemorrhage	1 (50%)
Fat, Necrosis	1 (50%)
Pancreas	(10)
Atrophy	1 (10%)

CARDIOVASCULAR SYSTEM

Heart	(10)
Cardiomyopathy	1 (10%)

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

None

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FISCHER 344 RATS FEMALE

100 ppm

HEMATOPOIETIC SYSTEM

None

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

Larynx	(10)
Respiratory Epithelium, Inflammation, Acute	1 (10%)
Lung	(10)
Inflammation, Acute	
Nose	(10)
Fibrosis	
Olfactory Epithelium, Atrophy	10 (100%)
Olfactory Epithelium, Mineralization	10 (100%)
Olfactory Epithelium, Necrosis	10 (100%)
Turbinates, Atrophy	10 (100%)

SPECIAL SENSES SYSTEM

Harderian Gland	(10)
Hyperplasia	1 (10%)

URINARY SYSTEM

Kidney	(10)
Nephropathy	

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*** END OF REPORT ***