

TDMS No. 20303 - 03

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

Date Report Requested: 08/18/2006

Test Type: 90-DAY

VINYLDENE CHLORIDE

Time Report Requested: 14:33:15

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 75-35-4

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

Species/Strain: RATS/F 344

Pathologist: KOOISTRA, L. - GRUMBEIN, S.

Lab: BNW

F1_R2

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

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 RATS MALE | Control | 6.25 ppm | 12.5 ppm | 25 ppm | 50 ppm | 100 ppm |
|---------------------------------------|---------|----------|----------|----------|----------|----------|
| 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) | (10) | (10) | (10) | (10) | (10) |
| Clear Cell Focus | 1 [1.0] | | | | | |
| Hepatodiaphragmatic Nodule | | 1 | 1 | | | |
| Vacuolization Cytoplasmic | | | | | | 1 [2.0] |
| Centrilobular, Cytoplasmic Alteration | 1 [1.0] | 1 [1.0] | 6 [1.7] | 10 [1.8] | 10 [2.0] | 10 [1.9] |
| Mesentery | (1) | (0) | (0) | (0) | (0) | (0) |
| Fat, Necrosis | 1 [2.0] | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | |
| Heart | (10) | (0) | (0) | (0) | (0) | (10) |
| Cardiomyopathy | 5 [1.0] | | | | | 3 [1.0] |
| ENDOCRINE SYSTEM | | | | | | |
| None | | | | | | |
| GENERAL BODY SYSTEM | | | | | | |
| None | | | | | | |
| GENITAL SYSTEM | | | | | | |
| None | | | | | | |

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|--|---------|----------|----------|----------|----------|----------|
| HEMATOPOIETIC SYSTEM | | | | | | |
| None | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | |
| Skin | (10) | (0) | (0) | (0) | (0) | (9) |
| Subcutaneous Tissue, Inflammation, Granulomatous, Focal | 1 [2.0] | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | |
| None | | | | | | |
| NERVOUS SYSTEM | | | | | | |
| None | | | | | | |
| RESPIRATORY SYSTEM | | | | | | |
| Lung | (10) | (10) | (10) | (10) | (10) | (10) |
| Inflammation, Acute | 1 [1.0] | | | | | 1 [1.0] |
| Inflammation, Chronic Active | | | 1 [1.0] | | | |
| Nose | (10) | (10) | (10) | (10) | (10) | (10) |
| Fibrosis | | | | | 1 [1.0] | |
| Goblet Cell, Hyperplasia | 1 [2.0] | | | | | |
| Olfactory Epithelium, Atrophy | | 4 [1.0] | 10 [1.0] | 10 [1.7] | 10 [2.2] | 10 [2.7] |
| Olfactory Epithelium, Mineralization | | 10 [1.3] | 10 [2.0] | 10 [2.9] | 10 [3.0] | 10 [2.6] |
| Olfactory Epithelium, Necrosis | | 2 [1.0] | 6 [1.0] | 9 [1.0] | 7 [1.7] | 10 [1.6] |
| Turbinate, Atrophy | | | 10 [1.0] | 10 [2.0] | 10 [2.2] | 10 [3.0] |
| SPECIAL SENSES SYSTEM | | | | | | |
| None | | | | | | |
| URINARY SYSTEM | | | | | | |

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Lab: BNW

| FISCHER 344 RATS MALE | Control | 6.25 ppm | 12.5 ppm | 25 ppm | 50 ppm | 100 ppm |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Kidney Nephropathy | (10) 6 [1.0] | (10) 3 [1.0] | (10) 4 [1.0] | (10) 4 [1.0] | (10) 3 [1.0] | (10) 1 [1.0] |

*** END OF MALE ***

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| Early Deaths | | | | | | |
| Survivors | | | | | | |
| Terminal Sacrifice | 10 | 10 | 10 | 10 | 10 | 10 |
| Animals Examined Microscopically | 10 | 10 | 10 | 10 | 10 | 10 |
| ALIMENTARY SYSTEM | | | | | | |
| Liver | (10) | (10) | (10) | (10) | (10) | (10) |
| Hepatodiaphragmatic Nodule | | | 1 | | 2 | 1 |
| Inflammation, Granulomatous | | 1 [2.0] | | 1 [2.0] | 1 [1.0] | 1 [1.0] |
| Vacuolization Cytoplasmic | | | | | 10 [1.1] | 10 [1.0] |
| Mesentery | (0) | (0) | (0) | (0) | (0) | (2) |
| Fat, Hemorrhage | | | | | | 1 [3.0] |
| Fat, Necrosis | | | | | | 1 [2.0] |
| Pancreas | (10) | (0) | (0) | (0) | (0) | (10) |
| Atrophy | 1 [1.0] | | | | | 1 [1.0] |
| CARDIOVASCULAR SYSTEM | | | | | | |
| Heart | (10) | (0) | (0) | (0) | (0) | (10) |
| Cardiomyopathy | 1 [1.0] | | | | | 1 [1.0] |
| ENDOCRINE SYSTEM | | | | | | |
| None | | | | | | |
| GENERAL BODY SYSTEM | | | | | | |
| None | | | | | | |
| GENITAL SYSTEM | | | | | | |
| None | | | | | | |

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|---|---------|----------|----------|----------|----------|----------|
| HEMATOPOIETIC SYSTEM | | | | | | |
| None | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | |
| None | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | |
| None | | | | | | |
| NERVOUS SYSTEM | | | | | | |
| None | | | | | | |
| RESPIRATORY SYSTEM | | | | | | |
| Larynx | (10) | (0) | (0) | (0) | (0) | (10) |
| Respiratory Epithelium, Inflammation, Acute | | | | | | 1 [2.0] |
| Lung | (10) | (10) | (10) | (10) | (10) | (10) |
| Inflammation, Acute | 2 [1.0] | | | | | |
| Nose | (10) | (10) | (10) | (10) | (10) | (10) |
| Fibrosis | | | | | 1 [1.0] | |
| Olfactory Epithelium, Atrophy | | 2 [1.0] | 10 [1.0] | 10 [1.3] | 10 [1.7] | 10 [2.4] |
| Olfactory Epithelium, Mineralization | | 5 [1.0] | 9 [1.3] | 10 [1.9] | 10 [2.1] | 10 [2.3] |
| Olfactory Epithelium, Necrosis | | 1 [1.0] | 3 [1.3] | 6 [1.5] | 10 [2.2] | 10 [1.6] |
| Turbinate, Atrophy | | | 10 [1.0] | 10 [2.0] | 10 [2.2] | 10 [3.0] |
| SPECIAL SENSES SYSTEM | | | | | | |
| Harderian Gland | (10) | (0) | (0) | (0) | (0) | (10) |
| Hyperplasia | | | | | | 1 [1.0] |

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|-------------------------|---------|----------|----------|-----------------|--------|---------|
| URINARY SYSTEM | | | | | | |
| Kidney Nephropathy | (10) | (10) | (10) | (10) 2 [1.0] | (10) | (10) |

*** END OF REPORT ***

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