

**TDMS No.** 20303 - 03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

**CAS Number:** 75-35-4

**Pathologist:** KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

F#1\_R2

**Date Report Reqsted:** 08/24/2006

**Time Report Reqsted:** 12:29:49

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

**Lab:** BNW

**C Number:** C20303  
**Lock Date:** 07/01/2005  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1 TMT: 1  
DOSE: Control

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52579

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lung
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland

- \* Adrenal Medulla
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea

- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Nose
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder

- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Liver
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus

MISSING

- \* Lymph Node, Bronchial

- \* Lymph Node, Mandibular

- \* Lymph Node, Mediastinal

- \* Mammary Gland

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 2 TMT: 1  
DOSE: Control

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52580

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea
- \* Adrenal Medulla
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Larynx
- \* Nose
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Liver
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland

**MISSING**

- \* Lymph Node, Bronchial
- \* Lymph Node, Mandibular
- \* Lymph Node, Mediastinal
- \* Mammary Gland

**OBSERVATIONS**

- \* Kidney Nephropathy Minimal

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 3 TMT: 1  
DOSE: Control

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52581

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Bone Marrow              |
| * Brain                   | * Epididymis                | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Larynx                 | * Liver                    |
| * Lung                    | * Lymph Node, Mediastinal   | * Lymph Node, Mesenteric | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Testes                 | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

**MISSING**

- |                         |                          |                 |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

**OBSERVATIONS**

- |        |             |              |                            |
|--------|-------------|--------------|----------------------------|
| * Skin | Subcut Tiss | Inflammation | Granulomatous, Focal, Mild |
|--------|-------------|--------------|----------------------------|

TDMS No. 20303 - 03

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Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 4 TMT: 1 DOSE: Control

SEX: Male DISP: Terminal Sacrifice

DAY ON TEST: 93 HISTO: 52582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex \* Adrenal Medulla \* Bone \* Bone Marrow
\* Brain \* Epididymis \* Esophagus \* Eye
\* Harderian Gland \* Intestine Large, Cecum \* Intestine Large, Colon \* Intestine Large, Rectum
\* Intestine Small, Duodenum \* Intestine Small, Ileum \* Intestine Small, Jejunum \* Islets, Pancreatic
\* Larynx \* Liver \* Lymph Node, Mediastinal \* Lymph Node, Mesenteric
\* Mammary Gland \* Pancreas \* Parathyroid Gland \* Pituitary Gland
\* Preputial Gland \* Prostate \* Salivary Glands \* Seminal Vesicle
\* Skin \* Spleen \* Stomach, Forestomach \* Stomach, Glandular
\* Testes \* Thymus \* Thyroid Gland \* Trachea
\* Urinary Bladder

MISSING

- \* Lymph Node, Bronchial \* Lymph Node, Mandibular

OBSERVATIONS

- \* Heart Cardiomyopathy Minimal
\* Kidney Nephropathy Minimal
\* Lung Inflammation Acute, Minimal
Mesentery Fat Necrosis Mild
[ Necrosis TGLs = 1-14 ]
\* Nose Goblet Cell Hyperplasia Mild

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLLIDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 5

TMT: 1  
DOSE: Control

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Larynx                    | * Liver                  | * Lung                     | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric    | * Nose                   | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Spleen                   | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Testes                 | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

MISSING

- |                         |                          |                 |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

- |          |                |         |
|----------|----------------|---------|
| * Heart  | Cardiomyopathy | Minimal |
| * Kidney | Nephropathy    | Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 6 TMT: 1  
DOSE: Control

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52584

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Bone Marrow              |
| * Brain                   | * Epididymis                | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Larynx                    | * Liver                  | * Lung                     |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric    | * Nose                   | * Pancreas                 |
| * Parathyroid Gland       | * Pituitary Gland           | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Skin                   | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Testes                 | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

**MISSING**

- |                         |                          |                 |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

**OBSERVATIONS**

- |          |             |         |
|----------|-------------|---------|
| * Kidney | Nephropathy | Minimal |
|----------|-------------|---------|

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLLIDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Reqsted: 08/24/2006

Time Report Reqsted: 12:29:49

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

Lab: BNW

|                    |   |              |         |              |                    |                     |       |
|--------------------|---|--------------|---------|--------------|--------------------|---------------------|-------|
| <b>ANIMAL NUM:</b> | 7 | <b>TMT:</b>  | 1       | <b>SEX:</b>  | Male               | <b>DAY ON TEST:</b> | 93    |
|                    |   | <b>DOSE:</b> | Control | <b>DISP:</b> | Terminal Sacrifice | <b>HISTO:</b>       | 52585 |

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Larynx                 | * Lung                     | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                     | * Spleen                  |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

**MISSING**

- |                         |                          |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

**OBSERVATIONS**

- |         |               |                        |         |
|---------|---------------|------------------------|---------|
| * Heart |               | Cardiomyopathy         | Minimal |
| * Liver |               | Clear Cell Focus       | Minimal |
|         | Centrilobular | Cytoplasmic Alteration | Minimal |



TDMS No. 20303 - 03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 08/24/2006

Test Type: 90-DAY

VINYLLIDENE CHLORIDE

Time Report Requested: 12:29:49

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. - Unknown, U.

Lab: BNW

ANIMAL NUM: 8      TMT: 1  
DOSE: Control

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52586

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Larynx                    | * Liver                  | * Lung                     | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                     | * Spleen                  |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

**MISSING**

- |                         |                          |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

**OBSERVATIONS**

- |          |                |         |
|----------|----------------|---------|
| * Heart  | Cardiomyopathy | Minimal |
| * Kidney | Nephropathy    | Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLLIDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 9

TMT: 1  
DOSE: Control

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52587

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Larynx                 | * Liver                    | * Lung                    |
| * Lymph Node, Mediastinal   | * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          | * Preputial Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle          | * Skin                    |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  |
| * Thymus                    | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

**MISSING**

- |                         |                          |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

**OBSERVATIONS**

- |         |                |         |
|---------|----------------|---------|
| * Heart | Cardiomyopathy | Minimal |
|---------|----------------|---------|

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 10 TMT: 1  
DOSE: Control

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52588

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mediastinal
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Adrenal Medulla
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Larynx
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Liver
- \* Nose
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus

**MISSING**

- \* Lymph Node, Bronchial
- \* Lymph Node, Mandibular
- \* Mammary Gland

**OBSERVATIONS**

- \* Kidney Nephropathy Minimal

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

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|                    |     |              |          |              |                    |                     |       |
|--------------------|-----|--------------|----------|--------------|--------------------|---------------------|-------|
| <b>ANIMAL NUM:</b> | 201 | <b>TMT:</b>  | 3        | <b>SEX:</b>  | Male               | <b>DAY ON TEST:</b> | 93    |
|                    |     | <b>DOSE:</b> | 6.25 ppm | <b>DISP:</b> | Terminal Sacrifice | <b>HISTO:</b>       | 52679 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

Lung

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**OBSERVATIONS**

Kidney

Nephropathy

Minimal

\* Nose

Olfactory Epi

Mineralization

Minimal

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 202 TMT: 3  
DOSE: 6.25 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52680

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Liver Lung

**OBSERVATIONS**

|        |               |                |         |
|--------|---------------|----------------|---------|
| Kidney |               | Nephropathy    | Minimal |
| * Nose | Olfactory Epi | Atrophy        | Minimal |
|        | Olfactory Epi | Mineralization | Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 203 TMT: 3  
DOSE: 6.25 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52681

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney Lung

**OBSERVATIONS**

Liver Hepatodiaphragmatic Nodule

[ Hepatodiaphragmatic Nodule TGLs = 1-14 ]

\* Nose Olfactory Epi Atrophy Minimal  
Olfactory Epi Mineralization Mild

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 204 TMT: 3  
DOSE: 6.25 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52682

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Liver

Lung

**OBSERVATIONS**

\* Nose

Olfactory Epi  
Olfactory Epi  
Olfactory Epi

Atrophy  
Mineralization  
Necrosis

Minimal  
Mild  
Minimal

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 205 TMT: 3  
DOSE: 6.25 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52683

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Liver

Lung

**OBSERVATIONS**

\* Nose

Olfactory Epi  
Olfactory Epi

Atrophy  
Mineralization

Minimal  
Mild



TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

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|                    |     |              |          |              |                    |                     |       |
|--------------------|-----|--------------|----------|--------------|--------------------|---------------------|-------|
| <b>ANIMAL NUM:</b> | 206 | <b>TMT:</b>  | 3        | <b>SEX:</b>  | Male               | <b>DAY ON TEST:</b> | 93    |
|                    |     | <b>DOSE:</b> | 6.25 ppm | <b>DISP:</b> | Terminal Sacrifice | <b>HISTO:</b>       | 52684 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

Liver

Lung

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**OBSERVATIONS**

\* Nose

Olfactory Epi

Mineralization

Minimal

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

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ANIMAL NUM: 207    TMT: 3  
DOSE: 6.25 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52685

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

Liver

Lung

---

**OBSERVATIONS**

\* Nose

Olfactory Epi

Mineralization

Minimal

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

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|             |     |       |          |       |                    |              |       |
|-------------|-----|-------|----------|-------|--------------------|--------------|-------|
| ANIMAL NUM: | 208 | TMT:  | 3        | SEX:  | Male               | DAY ON TEST: | 93    |
|             |     | DOSE: | 6.25 ppm | DISP: | Terminal Sacrifice | HISTO:       | 52686 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|        |      |
|--------|------|
| Kidney | Lung |
|--------|------|

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**OBSERVATIONS**

|        |               |                        |         |
|--------|---------------|------------------------|---------|
| Liver  | Centrilobular | Cytoplasmic Alteration | Minimal |
| * Nose | Olfactory Epi | Mineralization         | Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 209 TMT: 3  
DOSE: 6.25 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52687

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Liver Lung

**OBSERVATIONS**

|        |               |                |         |
|--------|---------------|----------------|---------|
| Kidney |               | Nephropathy    | Minimal |
| * Nose | Olfactory Epi | Mineralization | Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 210 TMT: 3  
DOSE: 6.25 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52688

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Liver

Lung

**OBSERVATIONS**

\* Nose

Olfactory Epi  
Olfactory Epi

Mineralization  
Necrosis

Minimal  
Minimal

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 401 TMT: 5  
DOSE: 12.5 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52659

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Lung

**OBSERVATIONS**

|        |                            |                        |                    |
|--------|----------------------------|------------------------|--------------------|
| Liver  | Centrilobular              | Cytoplasmic Alteration | Mild               |
| * Nose | Olfactory Epi<br>Turbinata | Atrophy<br>Atrophy     | Minimal<br>Minimal |
|        | Olfactory Epi              | Mineralization         | Mild               |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 402 TMT: 5  
DOSE: 12.5 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52660

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney Liver

**OBSERVATIONS**

|        |               |                |                         |
|--------|---------------|----------------|-------------------------|
| Lung   |               | Inflammation   | Chronic Active, Minimal |
| * Nose | Olfactory Epi | Atrophy        | Minimal                 |
|        | Turbinate     | Atrophy        | Minimal                 |
|        | Olfactory Epi | Mineralization | Mild                    |
|        | Olfactory Epi | Necrosis       | Minimal                 |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 403 TMT: 5  
DOSE: 12.5 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52661

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Liver Lung

**OBSERVATIONS**

|        |               |                |         |
|--------|---------------|----------------|---------|
| Kidney |               | Nephropathy    | Minimal |
| * Nose | Olfactory Epi | Atrophy        | Minimal |
|        | Turbinate     | Atrophy        | Minimal |
|        | Olfactory Epi | Mineralization | Mild    |



TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 404 TMT: 5  
DOSE: 12.5 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52662

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Liver Lung

**OBSERVATIONS**

|        |               |                |         |
|--------|---------------|----------------|---------|
| Kidney |               | Nephropathy    | Minimal |
| * Nose | Olfactory Epi | Atrophy        | Minimal |
|        | Turbinate     | Atrophy        | Minimal |
|        | Olfactory Epi | Mineralization | Mild    |
|        | Olfactory Epi | Necrosis       | Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 405 TMT: 5  
DOSE: 12.5 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52663

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Liver Lung

**OBSERVATIONS**

|        |               |                |         |
|--------|---------------|----------------|---------|
| Kidney |               | Nephropathy    | Minimal |
| * Nose | Turbinate     | Atrophy        | Minimal |
|        | Olfactory Epi | Atrophy        | Minimal |
|        | Olfactory Epi | Mineralization | Mild    |
|        | Olfactory Epi | Necrosis       | Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 406 TMT: 5  
DOSE: 12.5 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52664

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney Lung

**OBSERVATIONS**

|        |                            |                        |                    |
|--------|----------------------------|------------------------|--------------------|
| Liver  | Centrilobular              | Cytoplasmic Alteration | Mild               |
| * Nose | Olfactory Epi<br>Turbinata | Atrophy<br>Atrophy     | Minimal<br>Minimal |
|        | Olfactory Epi              | Mineralization         | Mild               |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 407 TMT: 5  
DOSE: 12.5 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Kidney Lung

OBSERVATIONS

|        |   |  |                                       |
|--------|---|--|---------------------------------------|
| Liver  | Centrilobular                             | Cytoplasmic Alteration<br>Hepatodiaphragmatic Nodule | Mild                                  |
|        | [ Hepatodiaphragmatic Nodule TGLs = 1-6 ] |  |                                       |
| * Nose | Olfactory Epi<br>Turbinat                 | Atrophy<br>Atrophy<br>Mineralization<br>Necrosis     | Minimal<br>Minimal<br>Mild<br>Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 408 TMT: 5  
DOSE: 12.5 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52666

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney Lung

**OBSERVATIONS**

|        |               |                        |         |
|--------|---------------|------------------------|---------|
| Liver  | Centrilobular | Cytoplasmic Alteration | Minimal |
| * Nose | Olfactory Epi | Atrophy                | Minimal |
|        | Turbinate     | Atrophy                | Minimal |
|        | Olfactory Epi | Mineralization         | Mild    |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 409 TMT: 5  
DOSE: 12.5 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52667

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney Lung

**OBSERVATIONS**

|        |               |                        |         |
|--------|---------------|------------------------|---------|
| Liver  | Centrilobular | Cytoplasmic Alteration | Minimal |
| * Nose | Turbinate     | Atrophy                | Minimal |
|        | Olfactory Epi | Atrophy                | Minimal |
|        | Olfactory Epi | Mineralization         | Mild    |
|        | Olfactory Epi | Necrosis               | Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 410 TMT: 5  
DOSE: 12.5 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52668

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Lung

**OBSERVATIONS**

|        |               |                        |         |
|--------|---------------|------------------------|---------|
| Kidney |               | Nephropathy            | Minimal |
| Liver  | Centrilobular | Cytoplasmic Alteration | Mild    |
| * Nose | Olfactory Epi | Atrophy                | Minimal |
|        | Turbinata     | Atrophy                | Minimal |
|        | Olfactory Epi | Mineralization         | Mild    |
|        | Olfactory Epi | Necrosis               | Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 601 TMT: 7  
DOSE: 25 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52639

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney Lung

**OBSERVATIONS**

|        |               |                        |          |
|--------|---------------|------------------------|----------|
| Liver  | Centrilobular | Cytoplasmic Alteration | Mild     |
| * Nose | Turbinate     | Atrophy                | Mild     |
|        | Olfactory Epi | Atrophy                | Mild     |
|        | Olfactory Epi | Mineralization         | Moderate |



TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 602 TMT: 7  
DOSE: 25 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52640

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney Lung

**OBSERVATIONS**

|        |               |                        |          |
|--------|---------------|------------------------|----------|
| Liver  | Centrilobular | Cytoplasmic Alteration | Minimal  |
| * Nose | Turbinate     | Atrophy                | Mild     |
|        | Olfactory Epi | Atrophy                | Mild     |
|        | Olfactory Epi | Mineralization         | Moderate |
|        | Olfactory Epi | Necrosis               | Minimal  |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 603 TMT: 7  
DOSE: 25 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52641

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Lung

**OBSERVATIONS**

|        |               |                        |          |
|--------|---------------|------------------------|----------|
| Kidney |               | Nephropathy            | Minimal  |
| Liver  | Centrilobular | Cytoplasmic Alteration | Mild     |
| * Nose | Turbinates    | Atrophy                | Mild     |
|        | Olfactory Epi | Atrophy                | Mild     |
|        | Olfactory Epi | Mineralization         | Moderate |
|        | Olfactory Epi | Necrosis               | Minimal  |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 604 TMT: 7  
DOSE: 25 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52642

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney Lung

**OBSERVATIONS**

|        |               |                        |          |
|--------|---------------|------------------------|----------|
| Liver  | Centrilobular | Cytoplasmic Alteration | Mild     |
| * Nose | Turbinate     | Atrophy                | Mild     |
|        | Olfactory Epi | Atrophy                | Mild     |
|        | Olfactory Epi | Mineralization         | Moderate |
|        | Olfactory Epi | Necrosis               | Minimal  |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 605 TMT: 7  
DOSE: 25 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52643

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Lung

**OBSERVATIONS**

|        |               |                        |          |
|--------|---------------|------------------------|----------|
| Liver  | Centrilobular | Cytoplasmic Alteration | Mild     |
| * Nose | Turbinate     | Atrophy                | Mild     |
|        | Olfactory Epi | Atrophy                | Minimal  |
|        | Olfactory Epi | Mineralization         | Moderate |
|        | Olfactory Epi | Necrosis               | Minimal  |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 606 TMT: 7  
DOSE: 25 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52644

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Lung

**OBSERVATIONS**

|        |                             |                        |          |
|--------|-----------------------------|------------------------|----------|
| Kidney |                             | Nephropathy            | Minimal  |
| Liver  | Centrilobular               | Cytoplasmic Alteration | Mild     |
| * Nose | Olfactory Epi<br>Turbinates | Atrophy                | Mild     |
|        | Olfactory Epi               | Mineralization         | Moderate |
|        | Olfactory Epi               | Necrosis               | Minimal  |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 607 TMT: 7  
DOSE: 25 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52645

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Lung

**OBSERVATIONS**

|        |               |                        |          |
|--------|---------------|------------------------|----------|
| Kidney |               | Nephropathy            | Minimal  |
| Liver  | Centrilobular | Cytoplasmic Alteration | Mild     |
| * Nose | Olfactory Epi | Atrophy                | Mild     |
|        | Turbinates    | Atrophy                | Mild     |
|        | Olfactory Epi | Mineralization         | Moderate |
|        | Olfactory Epi | Necrosis               | Minimal  |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 608 TMT: 7  
DOSE: 25 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52646

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney Lung

**OBSERVATIONS**

|        |               |                        |          |
|--------|---------------|------------------------|----------|
| Liver  | Centrilobular | Cytoplasmic Alteration | Minimal  |
| * Nose | Olfactory Epi | Atrophy                | Minimal  |
|        | Turbinate     | Atrophy                | Mild     |
|        | Olfactory Epi | Mineralization         | Moderate |
|        | Olfactory Epi | Necrosis               | Minimal  |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 609 TMT: 7  
DOSE: 25 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52647

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Lung

**OBSERVATIONS**

|        |                            |                        |         |
|--------|----------------------------|------------------------|---------|
| Liver  | Centrilobular              | Cytoplasmic Alteration | Mild    |
| * Nose | Olfactory Epi<br>Turbinata | Atrophy                | Minimal |
|        | Olfactory Epi              | Atrophy                | Mild    |
|        | Olfactory Epi              | Mineralization         | Mild    |
|        | Olfactory Epi              | Necrosis               | Minimal |



TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 610 TMT: 7  
DOSE: 25 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52648

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Lung

**OBSERVATIONS**

|        |               |                        |          |
|--------|---------------|------------------------|----------|
| Kidney |               | Nephropathy            | Minimal  |
| Liver  | Centrilobular | Cytoplasmic Alteration | Mild     |
| * Nose | Turbinates    | Atrophy                | Mild     |
|        | Olfactory Epi | Atrophy                | Mild     |
|        | Olfactory Epi | Mineralization         | Moderate |
|        | Olfactory Epi | Necrosis               | Minimal  |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 801 TMT: 9  
DOSE: 50 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52619

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Lung

**OBSERVATIONS**

|        |                            |                        |          |
|--------|----------------------------|------------------------|----------|
| Kidney |                            | Nephropathy            | Minimal  |
| Liver  | Centrilobular              | Cytoplasmic Alteration | Mild     |
| * Nose | Olfactory Epi<br>Turbinata | Atrophy                | Mild     |
|        | Olfactory Epi              | Mineralization         | Moderate |
|        | Olfactory Epi              | Necrosis               | Minimal  |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 802 TMT: 9  
DOSE: 50 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52620

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney Lung

**OBSERVATIONS**

|        |               |                        |          |
|--------|---------------|------------------------|----------|
| Liver  | Centrilobular | Cytoplasmic Alteration | Mild     |
| * Nose | Turbinate     | Atrophy                | Mild     |
|        | Olfactory Epi | Atrophy                | Mild     |
|        | Olfactory Epi | Mineralization         | Moderate |
|        | Olfactory Epi | Necrosis               | Mild     |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 803 TMT: 9  
DOSE: 50 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52621

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Lung

**OBSERVATIONS**

|        |               |                        |          |
|--------|---------------|------------------------|----------|
| Kidney |               | Nephropathy            | Minimal  |
| Liver  | Centrilobular | Cytoplasmic Alteration | Mild     |
| * Nose | Turbinate     | Atrophy                | Mild     |
|        | Olfactory Epi | Atrophy                | Mild     |
|        | Olfactory Epi | Mineralization         | Moderate |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 804 TMT: 9  
DOSE: 50 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52622

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Lung

**OBSERVATIONS**

Liver

Centrilobular

Cytoplasmic Alteration

Mild

\* Nose

Turbinate

Atrophy

Mild

Olfactory Epi

Atrophy

Mild

Olfactory Epi

Mineralization

Moderate

Olfactory Epi

Necrosis

Minimal

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 805 TMT: 9  
DOSE: 50 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52623

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Lung

**OBSERVATIONS**

|        |                                |                                |                         |
|--------|--------------------------------|--------------------------------|-------------------------|
| Kidney |                                | Nephropathy                    | Minimal                 |
| Liver  | Centrilobular                  | Cytoplasmic Alteration         | Mild                    |
| * Nose | Olfactory Epi<br>Turbinates    | Atrophy<br>Atrophy<br>Fibrosis | Mild<br>Mild<br>Minimal |
|        | Olfactory Epi<br>Olfactory Epi | Mineralization<br>Necrosis     | Moderate<br>Mild        |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 806 TMT: 9  
DOSE: 50 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52624

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney Lung

**OBSERVATIONS**

|        |               |                        |          |
|--------|---------------|------------------------|----------|
| Liver  | Centrilobular | Cytoplasmic Alteration | Mild     |
| * Nose | Olfactory Epi | Atrophy                | Mild     |
|        | Turbinate     | Atrophy                | Mild     |
|        | Olfactory Epi | Mineralization         | Moderate |
|        | Olfactory Epi | Necrosis               | Mild     |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 807 TMT: 9  
DOSE: 50 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52625

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Lung

**OBSERVATIONS**

|        |               |                        |          |
|--------|---------------|------------------------|----------|
| Liver  | Centrilobular | Cytoplasmic Alteration | Mild     |
| * Nose | Turbinate     | Atrophy                | Moderate |
|        | Olfactory Epi | Atrophy                | Mild     |
|        | Olfactory Epi | Mineralization         | Moderate |



TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 808 TMT: 9  
DOSE: 50 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52626

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney Lung

**OBSERVATIONS**

|        |               |                        |          |
|--------|---------------|------------------------|----------|
| Liver  | Centrilobular | Cytoplasmic Alteration | Mild     |
| * Nose | Olfactory Epi | Atrophy                | Moderate |
|        | Turbinate     | Atrophy                | Mild     |
|        | Olfactory Epi | Mineralization         | Moderate |
|        | Olfactory Epi | Necrosis               | Mild     |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 809 TMT: 9  
DOSE: 50 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52627

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Lung

**OBSERVATIONS**

Liver

Centrilobular

Cytoplasmic Alteration

Mild

\* Nose

Olfactory Epi

Atrophy

Mild

Turbinates

Atrophy

Mild

Olfactory Epi

Mineralization

Moderate

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 810 TMT: 9  
DOSE: 50 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52628

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Lung

Preputial Gland

**OBSERVATIONS**

|        |               |                        |          |
|--------|---------------|------------------------|----------|
| Liver  | Centrilobular | Cytoplasmic Alteration | Mild     |
| * Nose | Olfactory Epi | Atrophy                | Moderate |
|        | Turbinate     | Atrophy                | Mild     |
|        | Olfactory Epi | Mineralization         | Moderate |
|        | Olfactory Epi | Necrosis               | Mild     |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1001 TMT: 11  
DOSE: 100 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mediastinal
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Adrenal Medulla
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Mammary Gland
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus

MISSING

- \* Lymph Node, Bronchial
- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Liver                      Centrilobular                      Cytoplasmic Alteration                      Minimal
- \* Nose                      Turbinate                      Atrophy                      Moderate
- Olfactory Epi                      Atrophy                      Moderate
- Olfactory Epi                      Mineralization                      Moderate
- Olfactory Epi                      Necrosis                      Moderate

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLLIDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1002 TMT: 11 DOSE: 100 ppm

SEX: Male DISP: Terminal Sacrifice

DAY ON TEST: 93 HISTO: 52600

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Kidney
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus
- \* Adrenal Medulla
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder

MISSING

- \* Lymph Node, Bronchial
- \* Lymph Node, Mandibular
- \* Lymph Node, Mediastinal
- \* Mammary Gland

OBSERVATIONS

- \* Heart
- \* Liver
- \* Nose
- Centrilobular
- Olfactory Epi Turbinate
- Olfactory Epi
- Olfactory Epi
- Cardiomyopathy
- Cytoplasmic Alteration
- Atrophy
- Atrophy
- Mineralization
- Necrosis
- Minimal
- Mild
- Moderate
- Moderate
- Moderate
- Mild

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1003 TMT: 11  
DOSE: 100 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Adrenal Medulla
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Mammary Gland
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus

MISSING

- \* Lymph Node, Bronchial
- \* Lymph Node, Mediastinal

OBSERVATIONS

- \* Liver                      Centrilobular                      Cytoplasmic Alteration                      Mild
- \* Nose                      Olfactory Epi                      Atrophy                      Moderate
- Turbinate                      Atrophy                      Moderate
- Olfactory Epi                      Mineralization                      Mild
- Olfactory Epi                      Necrosis                      Minimal

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1004 TMT: 11  
DOSE: 100 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52602

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Larynx                 | * Lung                     | * Lymph Node, Mesenteric  |
| * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          | * Preputial Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle          | * Skin                    |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  |
| * Thymus                    | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

MISSING

- |                         |                          |                           |                 |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

OBSERVATIONS

- |         |               |                        |          |
|---------|---------------|------------------------|----------|
| * Heart |               | Cardiomyopathy         | Minimal  |
| * Liver | Centrilobular | Cytoplasmic Alteration | Mild     |
| * Nose  | Turbinate     | Atrophy                | Moderate |
|         | Olfactory Epi | Atrophy                | Moderate |
|         | Olfactory Epi | Mineralization         | Moderate |
|         | Olfactory Epi | Necrosis               | Minimal  |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1005 TMT: 11  
DOSE: 100 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52603

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea
- \* Adrenal Medulla
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Mammary Gland
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland

MISSING

- \* Lymph Node, Bronchial
- \* Lymph Node, Mandibular
- \* Lymph Node, Mediastinal

OBSERVATIONS

- \* Liver                      Centrilobular                      Cytoplasmic Alteration                      Mild
- \* Nose                      Turbinate                      Atrophy                      Moderate
- Olfactory Epi                      Atrophy                      Mild
- Olfactory Epi                      Mineralization                      Mild
- Olfactory Epi                      Necrosis                      Minimal



TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1006 TMT: 11  
DOSE: 100 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder
- \* Adrenal Medulla
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Larynx
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mediastinal
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Lymph Node, Bronchial
- \* Lymph Node, Mandibular
- \* Mammary Gland

OBSERVATIONS

- \* Kidney Nephropathy Minimal
- \* Liver Centrilobular Cytoplasmic Alteration Mild  
Vacuolization Cytoplasmic Mild
- \* Nose Olfactory Epi Atrophy Mild  
Turbinates Atrophy Moderate  
Olfactory Epi Mineralization Mild  
Olfactory Epi Necrosis Mild

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLLIDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1007 TMT: 11  
DOSE: 100 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Spleen
- \* Thymus
- \* Adrenal Medulla
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Pancreas
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder

MISSING

- \* Lymph Node, Bronchial
- \* Parathyroid Gland
- \* Lymph Node, Mandibular
- \* Lymph Node, Mediastinal
- \* Mammary Gland

OBSERVATIONS

- \* Liver                      Centrilobular                      Cytoplasmic Alteration                      Mild
- \* Nose                      Olfactory Epi                      Atrophy                      Mild
- Turbinates                      Atrophy                      Moderate
- Olfactory Epi                      Mineralization                      Moderate
- Olfactory Epi                      Necrosis                      Minimal

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1008 TMT: 11  
DOSE: 100 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Kidney
- \* Mammary Gland
- \* Preputial Gland
- \* Spleen
- \* Thymus
- \* Adrenal Medulla
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Pancreas
- \* Prostate
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Testes
- \* Urinary Bladder

MISSING

- \* Lymph Node, Bronchial
- \* Lymph Node, Mandibular
- \* Lymph Node, Mediastinal

INSUFFICIENT TISSUE

- \* Skin

OBSERVATIONS

- |         |                         |                        |          |
|---------|-------------------------|------------------------|----------|
| * Heart |                         | Cardiomyopathy         | Minimal  |
| * Liver | Centrilobular           | Cytoplasmic Alteration | Mild     |
| * Nose  | Olfactory Epi Turbinate | Atrophy                | Moderate |
|         | Olfactory Epi           | Atrophy                | Moderate |
|         | Olfactory Epi           | Mineralization         | Moderate |
|         | Olfactory Epi           | Necrosis               | Minimal  |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLLIDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1009 TMT: 11  
DOSE: 100 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52607

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mediastinal
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland

- \* Adrenal Medulla
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea

- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Mammary Gland
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder

- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus

MISSING

- \* Lymph Node, Bronchial
- \* Lymph Node, Mandibular

OBSERVATIONS

- |         |                             |                        |          |
|---------|-----------------------------|------------------------|----------|
| * Liver | Centrilobular               | Cytoplasmic Alteration | Mild     |
| * Nose  | Olfactory Epi<br>Turbinates | Atrophy                | Marked   |
|         | Olfactory Epi               | Atrophy                | Moderate |
|         | Olfactory Epi               | Mineralization         | Moderate |
|         |                             | Necrosis               | Moderate |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1010 TMT: 11  
DOSE: 100 ppm

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder

- \* Adrenal Medulla
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus

- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland

- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mediastinal
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Lymph Node, Bronchial

- \* Lymph Node, Mandibular

- \* Mammary Gland

OBSERVATIONS

- |         |                            |                        |                |
|---------|----------------------------|------------------------|----------------|
| * Liver | Centrilobular              | Cytoplasmic Alteration | Mild           |
| * Lung  |                            | Inflammation           | Acute, Minimal |
| * Nose  | Olfactory Epi<br>Turbinate | Atrophy                | Mild           |
|         | Olfactory Epi              | Atrophy                | Moderate       |
|         | Olfactory Epi              | Mineralization         | Mild           |
|         |                            | Necrosis               | Minimal        |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 101 TMT: 2  
DOSE: Control

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mediastinal
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus
- \* Uterus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Lymph Node, Bronchial
- \* Lymph Node, Mandibular

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 102 TMT: 2  
DOSE: Control

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52590

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mediastinal
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus
- \* Uterus

- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

**MISSING**

- \* Lymph Node, Bronchial

- \* Lymph Node, Mandibular

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 103 TMT: 2  
DOSE: Control

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52591

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mediastinal
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus
- \* Uterus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

**MISSING**

- \* Lymph Node, Bronchial
- \* Lymph Node, Mandibular



TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 104 TMT: 2  
DOSE: Control

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52592

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Bone Marrow              |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Larynx                 | * Liver                    |
| * Lung                    | * Lymph Node, Mediastinal   | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Ovary                     | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Salivary Glands           | * Skin                   | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           | * Uterus                 |                            |

**MISSING**

- |                         |                          |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 105 TMT: 2  
DOSE: Control

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52593

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mediastinal
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus
- \* Uterus

- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

**MISSING**

- \* Lymph Node, Bronchial

- \* Lymph Node, Mandibular



TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 107 TMT: 2  
DOSE: Control

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52595

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lung
- \* Nose
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mediastinal
- \* Ovary
- \* Skin
- \* Thymus
- \* Uterus

- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Liver
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

**MISSING**

- \* Lymph Node, Bronchial

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- \* Pancreas

Atrophy

Minimal

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

**ANIMAL NUM:** 108    **TMT:** 2  
**DOSE:** Control

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 93  
**HISTO:** 52596

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Bone Marrow              |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Larynx                 | * Liver                    |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     |
| * Ovary                   | * Pancreas                  | * Pituitary Gland        | * Salivary Glands          |
| * Skin                    | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

**MISSING**

- |                         |                          |                     |
|-------------------------|--------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------|

**OBSERVATIONS**

|        |              |                |
|--------|--------------|----------------|
| * Lung | Inflammation | Acute, Minimal |
|--------|--------------|----------------|

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 109 TMT: 2  
DOSE: Control

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mediastinal
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus
- \* Uterus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Lymph Node, Bronchial
- \* Lymph Node, Mandibular

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 110  
TMT: 2  
DOSE: Control

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52598

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Bone Marrow              |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Larynx                 | * Liver                    |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     |
| * Ovary                   | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Salivary Glands         | * Skin                      | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         | * Uterus                    |                          |                            |

**MISSING**

- |                         |                          |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

**OBSERVATIONS**

- |        |              |                |
|--------|--------------|----------------|
| * Lung | Inflammation | Acute, Minimal |
|--------|--------------|----------------|

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

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ANIMAL NUM: 301 TMT: 4  
DOSE: 6.25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52689

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**  
Kidney Liver Lung Mammary Gland

---

**OBSERVATIONS**  
\* Nose Olfactory Epi Atrophy Minimal



TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 302 TMT: 4  
DOSE: 6.25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52690

**ORGAN AND ACCOUNTABLE SITE STATUS**

|                 |       |      |               |
|-----------------|-------|------|---------------|
| <b>NORMAL</b>   |       |      |               |
| Kidney          | Liver | Lung | Mammary Gland |
| Pituitary Gland |       |      |               |

**OBSERVATIONS**

|        |               |                |         |
|--------|---------------|----------------|---------|
| * Nose | Olfactory Epi | Mineralization | Minimal |
|--------|---------------|----------------|---------|

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

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|                        |                       |                                 |                        |
|------------------------|-----------------------|---------------------------------|------------------------|
| <b>ANIMAL NUM:</b> 303 | <b>TMT:</b> 4         | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 93 |
|                        | <b>DOSE:</b> 6.25 ppm | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> 52691    |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

---

**OBSERVATIONS**

|        |               |                |         |
|--------|---------------|----------------|---------|
| * Nose | Olfactory Epi | Mineralization | Minimal |
|--------|---------------|----------------|---------|

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 304 TMT: 4  
DOSE: 6.25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52692

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |  |       |  |               |
|---------------|--|-------|--|---------------|
| <b>NORMAL</b> |  |       |  |               |
| Kidney        |  | Liver |  | Lung          |
|               |  |       |  | Mammary Gland |

**OBSERVATIONS**

|        |               |                |  |         |
|--------|---------------|----------------|--|---------|
| * Nose | Olfactory Epi | Mineralization |  | Minimal |
|--------|---------------|----------------|--|---------|

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

---

|                    |     |              |          |              |                    |                     |       |
|--------------------|-----|--------------|----------|--------------|--------------------|---------------------|-------|
| <b>ANIMAL NUM:</b> | 305 | <b>TMT:</b>  | 4        | <b>SEX:</b>  | Female             | <b>DAY ON TEST:</b> | 93    |
|                    |     | <b>DOSE:</b> | 6.25 ppm | <b>DISP:</b> | Terminal Sacrifice | <b>HISTO:</b>       | 52693 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |
| * Nose        |       |      |               |

---

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

---

ANIMAL NUM: 306    TMT: 4  
DOSE: 6.25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52694

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

Lung

Mammary Gland

\* Nose

---

**OBSERVATIONS**

Liver

Inflammation

Granulomatous, Mild

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 307 TMT: 4  
DOSE: 6.25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52695

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

**OBSERVATIONS**

|        |               |          |         |
|--------|---------------|----------|---------|
| * Nose | Olfactory Epi | Necrosis | Minimal |
|--------|---------------|----------|---------|

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 308 TMT: 4  
DOSE: 6.25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52696

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

|                     |               |                |         |
|---------------------|---------------|----------------|---------|
| <b>OBSERVATIONS</b> |               |                |         |
| * Nose              | Olfactory Epi | Mineralization | Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 309 TMT: 4  
DOSE: 6.25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52697

**ORGAN AND ACCOUNTABLE SITE STATUS**

| NORMAL |       |      |               |
|--------|-------|------|---------------|
| Kidney | Liver | Lung | Mammary Gland |

**OBSERVATIONS**

|        |                                |                           |                    |
|--------|--------------------------------|---------------------------|--------------------|
| * Nose | Olfactory Epi<br>Olfactory Epi | Atrophy<br>Mineralization | Minimal<br>Minimal |
|--------|--------------------------------|---------------------------|--------------------|



TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

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ANIMAL NUM: 310    TMT: 4  
DOSE: 6.25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52698

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |       |      |               |
|--------|-------|------|---------------|
| Kidney | Liver | Lung | Mammary Gland |
| * Nose |       |      |               |

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TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 501 TMT: 6  
DOSE: 12.5 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52669

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

**OBSERVATIONS**

|        |               |                |         |
|--------|---------------|----------------|---------|
| * Nose | Turbinate     | Atrophy        | Minimal |
|        | Olfactory Epi | Atrophy        | Minimal |
|        | Olfactory Epi | Mineralization | Minimal |
|        | Olfactory Epi | Necrosis       | Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 502 TMT: 6  
DOSE: 12.5 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52670

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

**OBSERVATIONS**

|        |               |                |         |
|--------|---------------|----------------|---------|
| * Nose | Turbinate     | Atrophy        | Minimal |
|        | Olfactory Epi | Atrophy        | Minimal |
|        | Olfactory Epi | Mineralization | Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 503 TMT: 6  
DOSE: 12.5 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52671

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

**OBSERVATIONS**

|        |               |                |         |
|--------|---------------|----------------|---------|
| * Nose | Turbinate     | Atrophy        | Minimal |
|        | Olfactory Epi | Atrophy        | Minimal |
|        | Olfactory Epi | Mineralization | Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 504 TMT: 6  
DOSE: 12.5 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52672

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

**OBSERVATIONS**

|        |  |                                      |                               |
|--------|--|--------------------------------------|-------------------------------|
| * Nose | Olfactory Epi<br>Turbinates<br>Olfactory Epi | Atrophy<br>Atrophy<br>Mineralization | Minimal<br>Minimal<br>Minimal |
|--------|--|--------------------------------------|-------------------------------|

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 505 TMT: 6  
DOSE: 12.5 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52673

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Lung

Mammary Gland

**OBSERVATIONS**

Liver

[ Hepatodiaphragmatic Nodule TGLs = 1-14 ]

Hepatodiaphragmatic Nodule

\* Nose

Turbinate  
Olfactory Epi  
Olfactory Epi  
Olfactory Epi

Atrophy  
Atrophy  
Mineralization  
Necrosis

Minimal  
Minimal  
Mild  
Mild

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 506 TMT: 6  
DOSE: 12.5 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52674

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

**OBSERVATIONS**

|        |               |                |         |
|--------|---------------|----------------|---------|
| * Nose | Turbinate     | Atrophy        | Minimal |
|        | Olfactory Epi | Atrophy        | Minimal |
|        | Olfactory Epi | Mineralization | Mild    |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 507 TMT: 6  
DOSE: 12.5 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52675

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

**OBSERVATIONS**

|        |               |          |         |
|--------|---------------|----------|---------|
| * Nose | Turbinate     | Atrophy  | Minimal |
|        | Olfactory Epi | Atrophy  | Minimal |
|        | Olfactory Epi | Necrosis | Minimal |



TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 508 TMT: 6  
DOSE: 12.5 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52676

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

**OBSERVATIONS**

|        |  |                                      |                            |
|--------|--|--------------------------------------|----------------------------|
| * Nose | Olfactory Epi<br>Turbinates<br>Olfactory Epi | Atrophy<br>Atrophy<br>Mineralization | Minimal<br>Minimal<br>Mild |
|--------|--|--------------------------------------|----------------------------|

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 509 TMT: 6  
DOSE: 12.5 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52677

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

**OBSERVATIONS**

|        |               |                |         |
|--------|---------------|----------------|---------|
| * Nose | Turbinate     | Atrophy        | Minimal |
|        | Olfactory Epi | Atrophy        | Minimal |
|        | Olfactory Epi | Mineralization | Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 510 TMT: 6  
DOSE: 12.5 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52678

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

**OBSERVATIONS**

|        |               |                |         |
|--------|---------------|----------------|---------|
| * Nose | Turbinate     | Atrophy        | Minimal |
|        | Olfactory Epi | Atrophy        | Minimal |
|        | Olfactory Epi | Mineralization | Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 701 TMT: 8  
DOSE: 25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52649

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Lung

Mammary Gland

**OBSERVATIONS**

|        |               |                |                     |
|--------|---------------|----------------|---------------------|
| Liver  |               | Inflammation   | Granulomatous, Mild |
| * Nose | Olfactory Epi | Atrophy        | Mild                |
|        | Turbinate     | Atrophy        | Mild                |
|        | Olfactory Epi | Mineralization | Mild                |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 702 TMT: 8  
DOSE: 25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52650

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

**OBSERVATIONS**

|        |  |  |                                    |
|--------|--|--|------------------------------------|
| * Nose | Olfactory Epi<br>Turbinata<br>Olfactory Epi<br>Olfactory Epi | Atrophy<br>Atrophy<br>Mineralization<br>Necrosis | Minimal<br>Mild<br>Mild<br>Minimal |
|--------|--|--|------------------------------------|

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 703 TMT: 8  
DOSE: 25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52651

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Liver

Lung

Mammary Gland

**OBSERVATIONS**

Kidney

Nephropathy

Minimal

\* Nose

Olfactory Epi  
Turbinata  
Olfactory Epi

Atrophy  
Atrophy  
Mineralization

Minimal  
Mild  
Mild

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 704 TMT: 8  
DOSE: 25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52652

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

**OBSERVATIONS**

|        |  |                                      |                      |
|--------|--|--------------------------------------|----------------------|
| * Nose | Olfactory Epi<br>Turbinates<br>Olfactory Epi | Atrophy<br>Atrophy<br>Mineralization | Mild<br>Mild<br>Mild |
|--------|--|--------------------------------------|----------------------|

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 705 TMT: 8  
DOSE: 25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52653

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Liver

Lung

Mammary Gland

**OBSERVATIONS**

Kidney

Nephropathy

Minimal

\* Nose

Turbinate

Atrophy

Mild

Olfactory Epi

Atrophy

Minimal

Olfactory Epi

Mineralization

Mild



TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 706 TMT: 8  
DOSE: 25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52654

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

**OBSERVATIONS**

|        |                             |                    |                 |
|--------|-----------------------------|--------------------|-----------------|
| * Nose | Olfactory Epi<br>Turbinates | Atrophy<br>Atrophy | Minimal<br>Mild |
|        | Olfactory Epi               | Mineralization     | Mild            |
|        | Olfactory Epi               | Necrosis           | Mild            |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 707 TMT: 8  
DOSE: 25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52655

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

**OBSERVATIONS**

|        |                                |                            |                 |
|--------|--------------------------------|----------------------------|-----------------|
| * Nose | Olfactory Epi<br>Turbinates    | Atrophy<br>Atrophy         | Minimal<br>Mild |
|        | Olfactory Epi<br>Olfactory Epi | Mineralization<br>Necrosis | Mild<br>Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 708 TMT: 8  
DOSE: 25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52656

**ORGAN AND ACCOUNTABLE SITE STATUS**

|                 |       |      |               |
|-----------------|-------|------|---------------|
| <b>NORMAL</b>   |       |      |               |
| Kidney          | Liver | Lung | Mammary Gland |
| Pituitary Gland |       |      |               |

**OBSERVATIONS**

|        |                             |  |                                    |
|--------|-----------------------------|--|------------------------------------|
| * Nose | Olfactory Epi<br>Turbinates | Atrophy<br>Atrophy<br>Mineralization<br>Necrosis | Minimal<br>Mild<br>Minimal<br>Mild |
|--------|-----------------------------|--|------------------------------------|

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 709 TMT: 8  
DOSE: 25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52657

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

**OBSERVATIONS**

|        |               |                |      |
|--------|---------------|----------------|------|
| * Nose | Olfactory Epi | Atrophy        | Mild |
|        | Turbinate     | Atrophy        | Mild |
|        | Olfactory Epi | Mineralization | Mild |
|        | Olfactory Epi | Necrosis       | Mild |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 710 TMT: 8  
DOSE: 25 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52658

**ORGAN AND ACCOUNTABLE SITE STATUS**

|               |       |      |               |
|---------------|-------|------|---------------|
| <b>NORMAL</b> |       |      |               |
| Kidney        | Liver | Lung | Mammary Gland |

**OBSERVATIONS**

|        |                                |                            |                 |
|--------|--------------------------------|----------------------------|-----------------|
| * Nose | Olfactory Epi<br>Turbinates    | Atrophy<br>Atrophy         | Minimal<br>Mild |
|        | Olfactory Epi<br>Olfactory Epi | Mineralization<br>Necrosis | Mild<br>Minimal |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 901 TMT: 10  
DOSE: 50 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52629

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Lung

Mammary Gland

**OBSERVATIONS**

|        |               |                           |         |
|--------|---------------|---------------------------|---------|
| Liver  |               | Vacuolization Cytoplasmic | Minimal |
| * Nose | Olfactory Epi | Atrophy                   | Mild    |
|        | Turbinate     | Atrophy                   | Mild    |
|        | Olfactory Epi | Mineralization            | Mild    |
|        | Olfactory Epi | Necrosis                  | Mild    |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 902 TMT: 10  
DOSE: 50 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52630

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Lung

Mammary Gland

**OBSERVATIONS**

|        |               |                           |         |
|--------|---------------|---------------------------|---------|
| Liver  |               | Vacuolization Cytoplasmic | Minimal |
| * Nose | Turbinate     | Atrophy                   | Mild    |
|        | Olfactory Epi | Atrophy                   | Minimal |
|        | Olfactory Epi | Mineralization            | Mild    |
|        | Olfactory Epi | Necrosis                  | Mild    |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 903 TMT: 10  
DOSE: 50 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52631

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Lung

Mammary Gland

**OBSERVATIONS**

|        |               |                           |                        |
|--------|---------------|---------------------------|------------------------|
| Liver  |               | Inflammation              | Granulomatous, Minimal |
|        |               | Vacuolization Cytoplasmic | Minimal                |
| * Nose | Turbinate     | Atrophy                   | Mild                   |
|        | Olfactory Epi | Atrophy                   | Minimal                |
|        |               | Fibrosis                  | Minimal                |
|        | Olfactory Epi | Mineralization            | Mild                   |
|        | Olfactory Epi | Necrosis                  | Moderate               |



TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 904 TMT: 10  
DOSE: 50 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52632

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Lung

Mammary Gland

**OBSERVATIONS**

|        |               |                           |          |
|--------|---------------|---------------------------|----------|
| Liver  |               | Vacuolization Cytoplasmic | Minimal  |
| * Nose | Turbinate     | Atrophy                   | Moderate |
|        | Olfactory Epi | Atrophy                   | Mild     |
|        | Olfactory Epi | Mineralization            | Moderate |
|        | Olfactory Epi | Necrosis                  | Minimal  |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 905 TMT: 10  
DOSE: 50 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52633

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Lung

Mammary Gland

**OBSERVATIONS**

|        |               |                           |         |
|--------|---------------|---------------------------|---------|
| Liver  |               | Vacuolization Cytoplasmic | Minimal |
| * Nose | Olfactory Epi | Atrophy                   | Mild    |
|        | Turbinate     | Atrophy                   | Mild    |
|        | Olfactory Epi | Mineralization            | Mild    |
|        | Olfactory Epi | Necrosis                  | Mild    |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 906 TMT: 10 DOSE: 50 ppm

SEX: Female DISP: Terminal Sacrifice

DAY ON TEST: 93 HISTO: 52634

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Kidney Lung Mammary Gland

OBSERVATIONS

|        |   |   |         |
|--------|---|---|---------|
| Liver  |   | Hepatodiaphragmatic Nodule<br>Vacuolization Cytoplasmic | Minimal |
|        | [ Hepatodiaphragmatic Nodule TGLs = 1-6 ] |   |         |
| * Nose | Turbinate                                 | Atrophy   | Mild    |
|        | Olfactory Epi                             | Atrophy   | Mild    |
|        | Olfactory Epi                             | Mineralization  | Mild    |
|        | Olfactory Epi                             | Necrosis  | Mild    |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 907 TMT: 10 DOSE: 50 ppm

SEX: Female DISP: Terminal Sacrifice

DAY ON TEST: 93 HISTO: 52635

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Kidney

Lung

Mammary Gland

OBSERVATIONS

|        |  |   |                              |
|--------|--|---|------------------------------|
| Liver  |  | Hepatodiaphragmatic Nodule<br>Vacuolization Cytoplasmic | Minimal                      |
|        | [ Hepatodiaphragmatic Nodule TGLs = 1-6 ]                      |   |                              |
| * Nose | Olfactory Epi<br>Turbinatate<br>Olfactory Epi<br>Olfactory Epi | Atrophy<br>Atrophy<br>Mineralization<br>Necrosis        | Mild<br>Mild<br>Mild<br>Mild |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 908 TMT: 10  
DOSE: 50 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52636

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Lung

Mammary Gland

**OBSERVATIONS**

|        |               |                           |          |
|--------|---------------|---------------------------|----------|
| Liver  |               | Vacuolization Cytoplasmic | Minimal  |
| * Nose | Turbinate     | Atrophy                   | Mild     |
|        | Olfactory Epi | Atrophy                   | Mild     |
|        | Olfactory Epi | Mineralization            | Mild     |
|        | Olfactory Epi | Necrosis                  | Moderate |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 909 TMT: 10  
DOSE: 50 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52637

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Lung

Mammary Gland

**OBSERVATIONS**

Liver

Vacuolization Cytoplasmic

Minimal

\* Nose

Turbinates

Atrophy

Moderate

Olfactory Epi

Atrophy

Minimal

Olfactory Epi

Mineralization

Mild

Olfactory Epi

Necrosis

Mild

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 910 TMT: 10  
DOSE: 50 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52638

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney

Lung

Mammary Gland

**OBSERVATIONS**

Liver

Vacuolization Cytoplasmic

Mild

\* Nose

Turbinates

Atrophy

Mild

Olfactory Epi

Atrophy

Mild

Olfactory Epi

Mineralization

Mild

Olfactory Epi

Necrosis

Moderate

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLLIDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1101 TMT: 12  
DOSE: 100 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mediastinal
- \* Pancreas
- \* Skin
- \* Thymus
- \* Uterus
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

MISSING

- \* Lymph Node, Bronchial
- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Liver
- \* Nose
- Olfactory Epi
- Turbinate
- Olfactory Epi
- Olfactory Epi
- Vacuolization Cytoplasmic
- Atrophy
- Atrophy
- Mineralization
- Necrosis
- Minimal
- Moderate
- Moderate
- Mild
- Minimal



TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1102 TMT: 12  
DOSE: 100 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52610

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Larynx                 | * Lung                     | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Ovary                    | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          | * Uterus                  |

MISSING

- |                         |                          |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- |                   |                            |                           |          |
|-------------------|----------------------------|---------------------------|----------|
| * Harderian Gland |                            | Hyperplasia               | Minimal  |
| * Liver           |                            | Vacuolization Cytoplasmic | Minimal  |
| Mesentery         | Fat                        | Hemorrhage                | Moderate |
|                   | [ Hemorrhage TGLs = 1-14 ] |                           |          |
| * Nose            | Olfactory Epi              | Atrophy                   | Mild     |
|                   | Turbinate                  | Atrophy                   | Moderate |
|                   | Olfactory Epi              | Mineralization            | Mild     |
|                   | Olfactory Epi              | Necrosis                  | Mild     |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLLIDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1103 TMT: 12  
DOSE: 100 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mediastinal
- \* Pancreas
- \* Skin
- \* Thymus
- \* Uterus

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

MISSING

- \* Lymph Node, Bronchial

- \* Lymph Node, Mandibular

OBSERVATIONS

- |         |  |  |                                   |
|---------|--|--|-----------------------------------|
| * Liver |  | Inflammation<br>Vacuolization Cytoplasmic        | Granulomatous, Minimal<br>Minimal |
| * Nose  | Turbinate<br>Olfactory Epi<br>Olfactory Epi<br>Olfactory Epi | Atrophy<br>Atrophy<br>Mineralization<br>Necrosis | Moderate<br>Mild<br>Mild<br>Mild  |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLLIDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1104 TMT: 12  
DOSE: 100 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mediastinal
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Mammary Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Ovary
- \* Skin
- \* Thymus
- \* Uterus

MISSING

- \* Lymph Node, Bronchial
- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Liver
- \* Nose
- \* Pancreas
- Vacuolization Cytoplasmic
- Olfactory Epi
- Turbinate
- Olfactory Epi
- Olfactory Epi
- Atrophy
- Atrophy
- Mineralization
- Necrosis
- Atrophy
- Minimal
- Moderate
- Moderate
- Moderate
- Mild
- Minimal

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1105 TMT: 12  
DOSE: 100 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52613

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Pancreas
- \* Skin
- \* Thymus
- \* Uterus

- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Lymph Node, Bronchial

- \* Lymph Node, Mandibular

- \* Lymph Node, Mediastinal

OBSERVATIONS

- |          |                            |                           |             |
|----------|----------------------------|---------------------------|-------------|
| * Larynx | Respirat Epith             | Inflammation              | Acute, Mild |
| * Liver  |                            | Vacuolization Cytoplasmic | Minimal     |
| * Nose   | Olfactory Epi<br>Turbinata | Atrophy                   | Mild        |
|          | Olfactory Epi              | Atrophy                   | Moderate    |
|          | Olfactory Epi              | Mineralization            | Mild        |
|          |                            | Necrosis                  | Mild        |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLLIDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1106 TMT: 12  
DOSE: 100 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52614

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mediastinal
- \* Pancreas
- \* Skin
- \* Thymus
- \* Uterus
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

MISSING

- \* Lymph Node, Bronchial
- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Liver
- \* Nose
- Olfactory Epi
- Turbinate
- Olfactory Epi
- Olfactory Epi
- Vacuolization Cytoplasmic
- Atrophy
- Atrophy
- Mineralization
- Necrosis
- Minimal
- Mild
- Moderate
- Mild
- Mild

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1107 TMT: 12  
DOSE: 100 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52615

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Pancreas
- \* Skin
- \* Thymus
- \* Uterus

MISSING

- \* Lymph Node, Bronchial
- \* Lymph Node, Mandibular
- \* Lymph Node, Mediastinal

OBSERVATIONS

- \* Liver
    - [ Hepatodiaphragmatic Nodule TGLs = 2-6 ]
  - Mesentery
    - Fat
    - [ Necrosis TGLs = 1-7 ]
  - \* Nose
    - Turbinate
    - Olfactory Epi
    - Olfactory Epi
    - Olfactory Epi
- |  |   |          |
|--|---|----------|
|  | Hepatodiaphragmatic Nodule<br>Vacuolization Cytoplasmic | Minimal  |
|  | Necrosis  | Mild     |
|  | Atrophy   | Moderate |
|  | Atrophy   | Mild     |
|  | Mineralization  | Mild     |
|  | Necrosis  | Minimal  |

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLLIDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1108 TMT: 12  
DOSE: 100 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52616

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mediastinal
- \* Pancreas
- \* Skin
- \* Thymus
- \* Uterus
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

MISSING

- \* Lymph Node, Bronchial
- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Liver
- \* Nose
- Turbinate
- Olfactory Epi
- Olfactory Epi
- Olfactory Epi
- Vacuolization Cytoplasmic
- Atrophy
- Atrophy
- Mineralization
- Necrosis
- Minimal
- Moderate
- Mild
- Mild
- Minimal

TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLLIDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1109 TMT: 12  
DOSE: 100 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52617

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mediastinal
- \* Pancreas
- \* Skin
- \* Thymus
- \* Uterus
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

MISSING

- \* Lymph Node, Bronchial
- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Liver
- \* Nose
- Turbinate
- Olfactory Epi
- Olfactory Epi
- Olfactory Epi
- Vacuolization Cytoplasmic
- Atrophy
- Atrophy
- Mineralization
- Necrosis
- Minimal
- Moderate
- Moderate
- Moderate
- Mild



TDMS No. 20303 - 03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: KOOISTRA, L. - GRUMBEIN, S. - Unknown, U.

Date Report Requested: 08/24/2006

Time Report Requested: 12:29:49

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

Lab: BNW

ANIMAL NUM: 1110 TMT: 12  
DOSE: 100 ppm

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 52618

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Larynx                 | * Lung                     | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Ovary                    | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          | * Uterus                  |

MISSING

- |                         |                          |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- |         |               |                           |          |
|---------|---------------|---------------------------|----------|
| * Heart |               | Cardiomyopathy            | Minimal  |
| * Liver |               | Vacuolization Cytoplasmic | Minimal  |
| * Nose  | Olfactory Epi | Atrophy                   | Moderate |
|         | Turbinate     | Atrophy                   | Moderate |
|         | Olfactory Epi | Mineralization            | Moderate |
|         | Olfactory Epi | Necrosis                  | Minimal  |

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