Experiment Number: 92005-01
Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Methyl vinyl ketone

CAS Number: 78-94-4

Date Report Requested: 10/22/2014 Time Report Requested: 07:36:05

First Dose M/F: NA / NA

Lab: NIEHS

C Number: C92005

Lock Date: Not Entered.

Cage Range: All

Date Range: All

Reasons For Removal:

Removal Date Range: All

Treatment Groups: All

Study Gender: Both

PWG Approval Date NONE

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Methyl vinyl ketone **CAS Number:** 78-94-4

Time Report Requested: 07:36:05

Date Report Requested: 10/22/2014

First Dose M/F: NA / NA

Lab: NIEHS

| F 344/N Rat Male 0PPM | DAY ON TEST | 0 0 9 4 | |
|--------------------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------|
| | ANIMAL ID | 0 1 8 7 2 | 0 1 8 7 3 | 0 1 9 0 7 | 0 1 9 1 4 | 0 1 9 2 4 | 0 1 9 2 5 | 0 1 9 2 7 | 0 1 9 3 6 | 0 1 9 4 0 | *TOTALS |
| Alimentary System | | | | | | | | | | | , |
| Liver Cardiovascular System | | + | + | + | + | + | + | + | + | + | 9 |
| Heart Endocrine System | | + | + | + | + | + | + | + | + | + | 9 |
| NONE General Body System | | | | | | | | | | | |
| NONE Genital System | | | | | | | | | | | |
| Epididymis | | + | + | + | + | + | + | + | + | + | 9 |
| Testes Hematopoietic System | | + | + | + | + | + | + | + | + | + | 9 |
| Spleen Integumentary System | | + | + | + | + | + | + | + | + | + | 9 |
| NONE Musculoskeletal System | | | | | | | | | | | |
| Bone | | + | + | + | + | + | + | + | + | + | 9 |

Nervous System

M .. Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Methyl vinyl ketone

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 78-94-4

Date Report Requested: 10/22/2014 Time Report Requested: 07:36:05

First Dose M/F: NA / NA

Lab: NIEHS

| F 344/N Rat Male 0PPM | DAY ON TEST ANIMAL ID | 0 9 4 0 1 8 7 2 | 0 9 4 0 1 8 7 3 | 0 9 4 0 1 9 0 7 | 0 9 4 0 1 9 | 0 9 4 0 1 9 2 4 | 0 9 4 0 1 9 2 5 | 0 9 4 0 1 9 2 7 | 0 9 4 0 1 9 3 6 | 0 9 4 0 1 9 4 0 | *TOTALS |
|--------------------------|------------------------|--------------------------------------|--------------------------------------|--------------------------------------|----------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------|
| NONE | | • | | | | | | | | | |
| Respiratory System | | | | | | | | | | | |
| Larynx | | + | + | + | + | + | + | + | + | + | 9 |
| Lung | | + | + | + | + | + | + | + | + | + | 9 |
| Nose | | + | + | + | + | + | + | + | + | + | 9 |
| Special Senses System | | | | | | | | | | | |
| NONE Urinary System | | | | | | | | | | | |
| Kidney SYSTEMIC LESIONS | | + | + | + | + | + | + | + | + | + | 9 |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | 9 |

M .. Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: 90-DAY

Test Compound: Methyl vinyl ketone

Species/Strain: Rat/F 344/N

CAS Number: 78-94-4

First Dose M/F: NA / NA

Lab: NIEHS

Date Report Requested: 10/22/2014

Time Report Requested: 07:36:05

F 344/N Rat Male 0.5PPM

| _ | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| V VIIVAVI ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 |
| | 5 | 6 | 7 | 7 | 9 | 9 | 0 | 0 | 0 | 3 |
| | 4 | 4 | 4 | 9 | 6 | 8 | 4 | 8 | 9 | 3 |

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

X .. Lesion present

I ..Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

| Experiment | Number: | 92005-01 |
|------------|---------|----------|
|------------|---------|----------|

Test Type: 90-DAY

Test Compound: Methyl vinyl ketone

Species/Strain: Rat/F 344/N

CAS Number: 78-94-4

Date Report Requested: 10/22/2014 Time Report Requested: 07:36:05

First Dose M/F: NA / NA

Lab: NIEHS

| F 344/N Rat Male 0.5PPM | DAY ON TEST ANIMAL ID | 0 9 4 0 1 8 5 4 | 0 9 4 0 1 8 6 4 | 0 9 4 0 1 8 7 | 0 9 4 0 1 8 7 | 0 9 4 0 1 8 9 6 | 0 9 4 0 1 8 9 8 | 0 9 4 0 1 9 0 4 | 0 9 4 0 1 9 0 8 | 0 9 4 0 1 9 0 9 | 0 9 4 0 1 9 3 3 | *TOTALS |
|-------------------------------|------------------------|--------------------------------------|--------------------------------------|---------------------------------|---------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------|
| Respiratory System | | | | | | | | | | | | |
| Nose Special Senses System | | + | + | + | + | + | + | + | + | + | + | 10 |
| NONE Urinary System | | | | | | | | | | | | |
| NONE SYSTEMIC LESIONS | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | 10 |

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

Test Compound: Methyl vinyl ketone

CAS Number: 78-94-4

Date Report Requested: 10/22/2014
Time Report Requested: 07:36:05

First Dose M/F: NA / NA

Lab: NIEHS

| F | 344/N | Rat | Male |
|----|-------|-----|------|
| 11 | PPM | | |

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| V VIII V V I I I | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 5 | 6 | 7 | 9 | 0 | 1 | 1 | 2 | 2 | 3 |
| | 6 | 1 | 1 | 0 | 6 | 5 | 9 | 1 | 3 | 0 |

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

| Experiment | Ν | lum | ber: | 92005-01 |
|------------|---|-----|------|----------|
|------------|---|-----|------|----------|

Test Compound: Methyl vinyl ketone

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 78-94-4

Date Report Requested: 10/22/2014

Time Report Requested: 07:36:05

First Dose M/F: NA / NA

Lab: NIEHS

| | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|-----------------------|-----------------------|--------|----------|--------|----------|----------|----------|-----|---|-----|----------|---------|
| F 344/N Rat Male | | 9 | 9 | 9 | 9 | 9 | 0 | 9 | 0 | 9 | 0 | |
| 1PPM | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 (1 VIII VII) (E 115 | 1 8 | 1 8 | 1 8 | 1 8 | 1 9 | 1 9 | 9 | 9 | 9 | 1 9 | |
| | | 5 | 6 | 7 | 9 | 0 | 1 5 | 1 9 | 2 | 2 3 | 3 0 | *TOTALS |
| Respiratory System | | | | | | | | | | | | |
| Nose | | + | + | + | + | + | + | + | + | + | + | 10 |
| Special Senses System | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | 10 |

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

Test Type: 90-DAY

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

CAS Number: 78-94-4

Test Compound: Methyl vinyl ketone

Species/Strain: Rat/F 344/N

Date Report Requested: 10/22/2014
Time Report Requested: 07:36:05

First Dose M/F: NA / NA

Lab: NIEHS

| F 344/N Rat Male 2PPM | DAY ON TEST | 0 9 4 | 0 0 9 4 | |
|--------------------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------|
| | ANIMAL ID | 0 1 8 6 0 | 0 1 8 6 2 | 0 1 8 6 5 | 0 1 8 6 6 | 0 1 8 6 9 | 0 1 9 0 3 | 0 1 9 1 8 | 0 1 9 4 1 | 0 1 9 4 3 | 0 1 9 4 8 | *TOTALS |
| Alimentary System | | | | | | | | | | | | |
| Liver Cardiovascular System | | + | + | + | + | + | + | + | + | + | + | 10 |
| Heart Endocrine System | | + | M | + | + | + | + | + | + | + | + | 9 |
| NONE General Body System | | | | | | | | | | | | |
| NONE Genital System | | | | | | | | | | | | |
| Epididymis Testes | | ++ | + + | + M | + | + | + | M + | ++ | ++ | M + | 8 9 |
| Hematopoietic System | | | | | | | | | | | | |
| Spleen Integumentary System | | + | + | + | + | + | + | + | + | + | + | 10 |
| NONE Musculoskeletal System | | | | | | | | | | | | |
| Bone Nervous System | | + | + | + | + | + | + | + | + | + | + | 10 |

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 90-DAY

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Methyl vinyl ketone

Species/Strain: Rat/F 344/N CAS Number: 78-94-4

Date Report Requested: 10/22/2014
Time Report Requested: 07:36:05

First Dose M/F: NA / NA

Lab: NIEHS

| F 344/N Rat Male 2PPM | DAY ON TEST ANIMAL ID | 0 9 4 0 1 8 6 | 0 9 4 0 1 8 6 2 | 0 9 4 0 1 8 6 5 | 0 9 4 0 1 8 6 6 | 0 9 4 0 1 8 6 | 0 9 4 0 1 9 0 3 | 0 9 4 0 1 9 1 8 | 0 9 4 0 1 9 4 | 0 9 4 0 1 9 4 3 | 0 9 4 0 1 9 4 8 | *TOTALS |
|----------------------------|------------------------|---------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------|--------------------------------------|--------------------------------------|---------------------------------|--------------------------------------|--------------------------------------|--------------------|
| NONE Respiratory System | | | | | | | | | | | | |
| Larynx | | + | + | + | + | + | + | + | + | + | + | 10 |
| Lung | | + | + | + | + | + | + | + | + | + | + | 10 |
| Nose | | + | + | + | + | + | + | + | + | + | + | 10 |
| Special Senses System | | | | | | | | | | | | |
| NONE Urinary System | | | | | | | | | | | | |
| Kidney SYSTEMIC LESIONS | | + | + | + | + | + | + | + | + | + | + | 10 |
| Multiple Organ | | + | + | + | + | + | + | + *** | + EN[| + O O | + F M | 10 IALE DATA*** |

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

 $^{^{\}star}\,$..Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Methyl vinyl ketone

CAS Number: 78-94-4

Date Report Requested: 10/22/2014 Time Report Requested: 07:36:05

First Dose M/F: NA / NA

Lab: NIEHS

| F 344/N Rat Female 0PPM | DAY ON TEST | 0 9 5 0 1 9 5 | 0 9 5 0 1 9 6 | 0 9 5 0 1 9 7 | 0 9 5 0 1 9 | 0 9 5 0 1 9 | 0 9 5 0 2 0 0 | 0 9 5 0 2 0 | 0 9 5 0 2 0 | 0 0 9 5 0 2 0 2 | 0 0 9 5 0 2 0 3 | |
|--------------------------------|-------------|---------------------------------|---------------------------------|---------------------------------|----------------------------|----------------------------|---------------------------------|----------------------------|----------------------------|--------------------------------------|--------------------------------------|---------|
| | | 2 | 6 | ó | 3 | 8 | 6 | 9 | 4 | 3 | 3 | *TOTALS |
| Alimentary System | | | | | | | | | | | | |
| Liver Cardiovascular System | | + | + | + | + | + | + | + | + | + | + | 10 |
| Heart Endocrine System | | + | + | + | + | + | + | + | + | + | + | 10 |
| NONE General Body System | | | | | | | | | | | | |
| NONE Genital System | | | | | | | | | | | | |
| Ovary | | + | + | + | + | + | + | + | + | + | + | 10 |
| Uterus Hematopoietic System | | + | + | + | + | + | + | + | + | + | + | 10 |
| Spleen Integumentary System | | + | + | + | + | + | + | + | + | + | + | 10 |
| NONE Musculoskeletal System | | | | | | | | | | | | |
| Bone Nervous System | | + | + | + | + | + | + | + | + | + | + | 10 |

I .. Insufficient tissue

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

M ..Missing tissue

A .. Autolysis precludes evaluation

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Methyl vinyl ketone

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 78-94-4

Date Report Requested: 10/22/2014 Time Report Requested: 07:36:05

First Dose M/F: NA / NA

Lab: NIEHS

| F 344/N Rat Female 0PPM | DAY ON TEST | 0 9 5 | 0 0 9 5 | |
|----------------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------|
| | ANIMAL ID | 0 1 9 5 2 | 0 1 9 6 6 | 0 1 9 7 0 | 0 1 9 9 3 | 0 1 9 9 8 | 0 2 0 0 6 | 0 2 0 0 9 | 0 2 0 1 4 | 0 2 0 2 3 | 0 2 0 3 3 | *TOTALS |
| NONE | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | |
| Larynx | | + | + | + | + | + | + | + | + | + | + | 10 |
| Lung | | + | + | + | + | + | + | + | + | + | + | 10 |
| Nose | | + | + | + | + | + | + | + | + | + | + | 10 |
| Special Senses System | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | |
| Kidney SYSTEMIC LESIONS | | + | + | + | + | + | + | + | + | + | + | 10 |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | 10 |

I .. Insufficient tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

M .. Missing tissue

D

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: 90-DAY

Test Compound: Methyl vinyl ketone

Species/Strain: Rat/F 344/N

CAS Number: 78-94-4

Time Report Requested: 07:36:05

Date Report Requested: 10/22/2014

First Dose M/F: NA / NA

Lab: NIEHS

| F 344/N | Rat Female |
|---------|------------|
| 0.5PPM | |

| AY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AMINIAL ID | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 7 | 8 | 8 | 9 | 1 | 2 | 2 | 3 | 4 |
| | 1 | 4 | 1 | 3 | 7 | 1 | 1 | 4 | 7 | 2 |

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

- X ..Lesion present
- I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

| Experiment | Number: | 92005-01 |
|------------|---------|----------|
|------------|---------|----------|

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

Test Compound: Methyl vinyl ketone

CAS Number: 78-94-4

Time Report Requested: 07:36:06

Date Report Requested: 10/22/2014

First Dose M/F: NA / NA

Lab: NIEHS

| F 344/N | Rat | Female |
|---------|-----|--------|
| 0.5PPM | | |

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AMIMAL ID | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 7 | 8 | 8 | 9 | 1 | 2 | 2 | 3 | 4 |
| | 1 | 4 | 1 | 3 | 7 | 1 | 1 | 4 | 7 | 2 |

*TOTALS

Respiratory System

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ + + + + + + + + + + 10

X ..Lesion present

I .. Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: 90-DAY

Test Compound: Methyl vinyl ketone CAS Number: 78-94-4

Species/Strain: Rat/F 344/N

Date Report Requested: 10/22/2014 Time Report Requested: 07:36:06

First Dose M/F: NA / NA

Lab: NIEHS

| F 344/N | Rat | Female |
|---------|-----|--------|
| 1PPM | | |

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| ANIIMAAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 7 | 8 | 9 | 9 | 1 | 2 | 3 | 3 |
| | 5 | 7 | 6 | 2 | 0 | 6 | 5 | 7 | 0 | 8 |

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

X .. Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

| Experiment | N | uml | ber: | 92005-01 |
|------------|---|-----|------|----------|
|------------|---|-----|------|----------|

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

Test Compound: Methyl vinyl ketone

CAS Number: 78-94-4

Date Report Requested: 10/22/2014 Time Report Requested: 07:36:06

First Dose M/F: NA / NA

Lab: NIEHS

| F 344/N | Rat | Female |
|---------|-----|--------|
| 1PPM | | |

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 7 | 8 | 9 | 9 | 1 | 2 | 3 | 3 |
| | 5 | 7 | 6 | 2 | 0 | 6 | 5 | 7 | 0 | 8 |

*TOTALS

Respiratory System

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ + + + + + + + + + + 10

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Methyl vinyl ketone

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 78-94-4

Time Report Requested: 07:36:06

Date Report Requested: 10/22/2014

First Dose M/F: NA / NA

Lab: NIEHS

| F 344/N Rat Female 2PPM | DAY ON TEST | 0 9 5 0 1 9 5 4 | 0 9 5 0 1 9 6 | 0 9 5 0 1 9 6 5 | 0 9 5 0 1 9 6 | 0 9 5 0 1 9 7 | 0 9 5 0 1 9 9 | 0 9 5 0 2 0 1 | 0 9 5 0 2 0 2 9 | 0 9 5 0 2 0 4 4 | 0 9 5 0 2 0 4 9 | *TOTALS |
|--|-------------|--------------------------------------|---------------------------------|--------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|----------|
| Alimentary System | | • | | | | | | | | | | 1017120 |
| Liver Cardiovascular System | | + | + | + | + | + | + | + | + | + | + | 10 |
| Heart Endocrine System | | + | + | + | + | + | + | + | + | + | + | 10 |
| NONE General Body System | | | | | | | | | | | | |
| NONE Genital System | | | | | | | | | | | | |
| Ovary Uterus Hematopoietic System | | + | + | + | + | + | + | + | + | + | + | 10 10 |
| Spleen Integumentary System | | + | + | + | + | + | + | + | + | + | + | 10 |
| NONE Musculoskeletal System | | | | | | | | | | | | |
| Bone Nervous System | | + | + | + | + | + | + | + | + | + | + | 10 |

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Methyl vinyl ketone

CAS Number: 78-94-4

Date Report Requested: 10/22/2014 Time Report Requested: 07:36:06

First Dose M/F: NA / NA

Lab: NIEHS

| F 344/N Rat Female 2PPM | DAY ON TEST | 0 0 9 5 0 1 9 5 4 | 0 9 5 0 1 9 6 0 | 0 9 5 0 1 9 6 5 | 0 9 5 0 1 9 6 | 0 9 5 0 1 9 7 | 0 9 5 0 1 9 9 | 0 9 5 0 2 0 1 7 | 0 9 5 0 2 0 2 9 | 0 9 5 0 2 0 4 4 | 0 9 5 0 2 0 4 9 | *TOTALS |
|----------------------------|-------------|---|--------------------------------------|--------------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------|
| NONE | | | • | • | • | | • | • | • | | | |
| Respiratory System | | | | | | | | | | | | |
| Larynx | | + | + | + | + | + | + | + | + | + | + | 10 |
| Lung | | + | + | + | + | + | + | + | + | + | + | 10 |
| Nose | | + | + | + | + | + | + | + | + | + | + | 10 |
| Special Senses System | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | 10 |
| SYSTEMIC LESIONS | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | 10 |
| ** END OF REPOR | | | | | | | | | | REPORT ** | | |

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically