STUDY NO. 00-4208
SPONSOR STUDY NO. 211-MTBE-2G

GASOLINE MTBE VAPOR CONDENSATE

A TWO-GENERATION WHOLE-BODY INHALATION REPRODUCTION

TOXICITY STUDY IN RATS

**Final Report**

Volume III of IV

Submitted to: American Petroleum Institute (API)
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**Key to Abbreviations**

| | | |
|---|---|---|
| SC | = | Spinal Cord |
| Gang | = | Ganglia |
| Fibr | = | Fiber |
| Ventrl | = | Ventral |
| Gl | = | Gland |
| LN | = | Lymph Node |
| Oviducts/Fallop | = | Oviducts/Fallopian |
| WNL | = | Within Normal Limits |

**Notes**

1. “No microscopic observations on tissue” indicates that the pathologist did not examine the tissue.

2. Unless otherwise specified in a histopathology note, the organ/tissue examined was the required (routine) section.

3. The dimensions of gross lesions are presented as a general range based on the actual dimensions noted during macroscopic examinations. The actual dimensions of gross lesions can be found in the raw data.

4. The lungs for non-pregnant females were not required to be saved and this is indicated by the notation “Tissue not saved per memo”.

Corresponding exposure levels for each group were as follows:

Group 1 - 0 mg/m$^3$
Group 2 - 2,000 mg/m$^3$
Group 3 - 10,000 mg/m$^3$
Group 4 - 20,000 mg/m$^3$

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1051
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | Dilated Pelvis, Right, Slight | Examined; 1 correlation found:<br>PELVIS: DILATED, UNILATERAL, Minimal. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
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STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1052
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
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STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1053
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1054 |
| PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
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STATUS: Final phase sacrifice
PHASE DAY OF DEATH: 113

SEX: Male
PHASE: Dosing phase

ANIMAL: 1055
GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | Dilated Pelvis, Left, Moderate | Examined; 1 correlation found:<br>PELVIS: DILATED, UNILATERAL, Minimal. |
| Lungs . . . . . | No gross observations on tissue. | INTERSTITIUM: SUBACUTE/CHRONIC INFLAMMATION, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 1056
PHASE DAY OF DEATH: 113 — PHASE: Dosing phase — GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | | |
| | Dilated Pelvis, Right, Severe | Examined; 1 correlation found:<br>PELVIS: DILATED, UNILATERAL, Moderate.<br><br>CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATE, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Liver |
| Lungs | Pituitary gland | Prostate | Spleen | Seminal vesicles |
| Right Testis | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1057
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | Dilated Pelvis, Right, Severe | Examined; 1 correlation found:<br>PELVIS: DILATED, UNILATERAL, Moderate. |
| Lungs . . . . . | No gross observations on tissue. | HEMORRHAGE, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1058
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1059
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Ear(s) . . . . . | | |
| | Swollen, Bilateral | Examined; 1 correlation found:<br>AURICULAR CHONDROPATHY, Marked. |
| | Discolored, Bilateral, Red | Examined; 1 correlation found:<br>AURICULAR CHONDROPATHY, Marked. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
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P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1060
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Liver . . . . . | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Kidneys |
| Lungs | Pituitary gland | Prostate | Spleen | Seminal vesicles |
| Right Testis | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1061
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Liver . . . . . | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Kidneys |
| Lungs | Pituitary gland | Prostate | Spleen | Seminal vesicles |
| Right Testis | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
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P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1062
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal. |
| Liver . . . . . | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Lungs |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1063 |
| PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
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P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 1064
PHASE DAY OF DEATH: 114 — PHASE: Dosing phase — GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal.<br><br>CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATE, Minimal. |
| Liver . . . . . | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Seminal vesicles . . . | No gross observations on tissue. | SECRETORY PRODUCT: DECREASED, Moderate. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Pituitary gland |
| Prostate | Spleen | Right Testis | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1065
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
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Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1066
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lymph Nodes . . . . . | | |
| | Discolored, Submandibular, Moderate | Examined; 2 correlations found:<br>CONGESTION, Minimal.<br>SINUSES: FREE ERYTHROCYTES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
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P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice
PHASE DAY OF DEATH: 114

SEX: Male
PHASE: Dosing phase

ANIMAL: 1067
GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Liver . . . . . | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |
| Lungs . . . . . | No gross observations on tissue. | INTERSTITIUM: SUBACUTE/CHRONIC INFLAMMATION, Minimal.<br><br>OSSEOUS METAPLASIA, Focal, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Kidneys |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
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P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1068
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1069
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 1070
PHASE DAY OF DEATH: 114 — PHASE: Dosing phase — GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATE, Minimal. |
| Liver . . . . . | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Pituitary gland |
| Prostate | Spleen | Seminal vesicles | Right Testis | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1071
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
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P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1072
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys | No gross observations on tissue. | MEDULLA: TUBULAR LUMEN(S)-EOSINOPHILIC MATERIAL, Minimal.<br><br>CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATE, Minimal.<br><br>CORTEX: DILATED TUBULE(S) WITH LUMENAL EOSINOPHILIC MATERIAL, Minimal. |
| Liver | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Lungs |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
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P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1073
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Prostate . . . . . | Discolored, Brown, Slight/ Left upper part of the lobe; 0.1 x 0.3 cm | Examined; 2 correlations found: ACINAR LUMENS: CORPORA AMYLACIA/MINERALIZED GRANULES, Minimal. PURULENT/CHRONIC PURULENT INFLAMMATION/ ABSCESS(ES)/CHRONIC ABSCESS(ES), Focal, Slight. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
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Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1074
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | BRONCHIOLAR HYPERPLASIA, UNILATERAL, Focal, Slight. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1075
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Kidneys |
| Liver | Pituitary gland | Prostate | Spleen | Seminal vesicles |
| Right Testis | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1076
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATE, Minimal.<br><br>CORTEX: DILATED TUBULE(S) WITH LUMENAL EOSINOPHILIC MATERIAL, Minimal. |
| Liver . . . . . | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Lungs |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2051 |
|---|---|---|
| PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2052 |
| PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2053 |
|---|---|---|
| PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2054 |
| PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2055
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2056
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2057 |
|---|---|---|
| PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
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Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2058
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2059
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Right Epididymis . . . | Small, Bilateral, Severe | Examined; 1 correlation found:<br>ASPERMIA, Present.<br><br>- Left epididymis is unavailable. |
| Right Testis . . . . . | Small, Bilateral, Severe | Examined; 1 correlation found:<br>GERMINAL EPITHELIUM:<br>DEGENERATION/ATROPHY, Marked.<br><br>- Left testis is unavailable. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2060
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Slight.<br><br>RETICULOENDOTHELIAL CELLS: BROWN PIGMENT, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 2061
PHASE DAY OF DEATH: 113 — PHASE: Dosing phase — GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2062
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2063 |
|---|---|---|
| PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2064
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice
PHASE DAY OF DEATH: 114

SEX: Male
PHASE: Dosing phase

ANIMAL: 2065
GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | | |
| | Dilated Pelvis, Right, Slight | Examined; 1 correlation found:<br>PELVIS: DILATED, UNILATERAL, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2066 |
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2067
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2068
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Liver . . . . . | | |
| | Discolored, Medial lobe, Tan, Area/ 0.7 cm dia | Examined; 1 correlation found:<br>HEPATOCELLULAR NECROSIS, Moderate.<br><br>- Locally extensive subcapsular coagulative necrosis with marginal infiltration of neutrophils and histiocytes. One section is present. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2069 |
|---|---|---|
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2070 |
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2071 |
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2072 |
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 2073
PHASE DAY OF DEATH: 114 — PHASE: Dosing phase — GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | | |
| | Dilated Pelvis, Right, Moderate | Examined; 1 correlation found:<br>PELVIS: DILATED, UNILATERAL, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2074
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2075
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2076 |
|---|---|---|
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 3051
PHASE DAY OF DEATH: 113 — PHASE: Dosing phase — GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | Tissue is unremarkable. |
| | Discolored, Red, Foci, Slight/ Diaphragmatic lobe, 0.2 cm dia | Examined; no correlation found |
| | Discolored, Tan, Foci, </= 0.1 cm, Slight/ Diaphragmatic lobe | Examined; no correlation found |
| Skin . . . . . | | No micropathology observations on tissue. |
| | Hair Thin/Absent, Extremities/Snout | |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3052 |
| PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 3053
PHASE DAY OF DEATH: 113 — PHASE: Dosing phase — GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice
PHASE DAY OF DEATH: 113

SEX: Male
PHASE: Dosing phase

ANIMAL: 3054
GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | |
| | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| | Discolored, Red, Foci, </= 0.1 cm, Slight/ Diaphragmatic lobe | Examined; no correlation found |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3055
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Slight.<br><br>RETICULOENDOTHELIAL CELLS: BROWN PIGMENT, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice
PHASE DAY OF DEATH: 113

SEX: Male
PHASE: Dosing phase

ANIMAL: 3056
GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, <= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3057
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | | |
| | Dilated Pelvis, Right, Severe | Examined; 1 correlation found:<br>PELVIS: DILATED, UNILATERAL, Moderate. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3058
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | Dilated Pelvis, Right, Slight | Examined; 1 correlation found:<br>PELVIS: DILATED, UNILATERAL, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3059
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3060
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3061 |
|---|---|---|
| PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | Discolored, Yellow/ A-G area | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3062
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | | |
| | Mass, Tan, Subcutaneous, Firm/ Mid-lateral, 0.5 cm dia | Examined; 1 correlation found: B-KERATOACANTHOMA. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3063 |
|---|---|---|
| PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3064 |
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3065
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | |
| | Discolored, All lobes, Tan, Foci, </= 0.1 cm | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3066 |
|---|---|---|
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3067 |
|---|---|---|
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3068
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Extremity . . . . . | Missing Digit, Right forepaw/ 1st digit | Tissue is unremarkable (with comment). Examined; no correlation found<br><br>- No digit is present in tissue from right forepaw. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3069
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3070 |
|---|---|---|
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3071 |
|---|---|---|
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3072 |
|---|---|---|
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3073 |
|---|---|---|
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3074
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | | |
| | Dilated Pelvis, Right, Slight | Examined; 1 correlation found:<br>PELVIS: DILATED, UNILATERAL, Slight.<br><br>CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight.<br><br>CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Slight.<br><br>CORTEX/CORTICO-MEDULLARY JUNCTION: TUBULAR LUMENS- GRANULAR CASTS, Minimal.<br><br>MEDULLA: TUBULAR LUMEN(S)-EOSINOPHILIC MATERIAL, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3075 |
|---|---|---|
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3076 |
|---|---|---|
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 4051
PHASE DAY OF DEATH: 113 — PHASE: Dosing phase — GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight. |
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Focal, Slight.<br><br>VISCERAL PLEURA/CAPSULE: SUBACUTE (CHRONIC ACTIVE)/ CHRONIC INFLAMMATION, Focal, Slight. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Liver |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice
PHASE DAY OF DEATH: 113

SEX: Male
PHASE: Dosing phase

ANIMAL: 4052
GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight.<br><br>CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Slight. |
| Liver . . . . . | No gross observations on tissue. | HEPATOCELLULAR NECROSIS, Focal, Moderate. |
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.<br><br>RETICULOENDOTHELIAL CELLS: BROWN PIGMENT, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Pituitary gland |
| Prostate | Spleen | Seminal vesicles | Right Testis | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 4053
PHASE DAY OF DEATH: 113 — PHASE: Dosing phase — GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys | No gross observations on tissue. | CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight.<br><br>CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal.<br><br>MEDULLA: TUBULAR LUMEN(S)-EOSINOPHILIC MATERIAL, Minimal.<br><br>CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATE, Minimal. |
| Liver | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Lungs |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4054 |
|---|---|---|
| PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4055
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | INTERSTITIUM: SUBACUTE/CHRONIC INFLAMMATION, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4056
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4057
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight.<br><br>CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal. |
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Liver |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4058
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys | No gross observations on tissue. | CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight.<br><br>CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Slight.<br><br>CORTEX/CORTICO-MEDULLARY JUNCTION: TUBULAR LUMENS- GRANULAR CASTS, Minimal.<br><br>CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATE, Minimal. |
| Liver | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Lungs |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4059
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Moderate | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 4060
PHASE DAY OF DEATH: 113 — PHASE: Dosing phase — GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | | |
| | Dilated Pelvis, Right, Moderate | Examined; 1 correlation found:<br>PELVIS: DILATED, UNILATERAL, Minimal.<br><br>CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight.<br><br>CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Slight. |
| Lungs . . . . . | | |
| | Discolored, All lobes, Tan, Foci, Moderate/ 0.1 - 0.2 cm dia | Examined; 1 correlation found:<br>ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4061
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 4062
PHASE DAY OF DEATH: 113 — PHASE: Dosing phase — GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys | No gross observations on tissue. | CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight.<br><br>CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Slight.<br><br>MEDULLA: TUBULAR LUMEN(S)-EOSINOPHILIC MATERIAL, Minimal.<br><br>CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATE, Minimal. |
| Liver | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |
| Lungs | No gross observations on tissue. | INTERSTITIUM: SUBACUTE/CHRONIC INFLAMMATION, Focal, Minimal. |
| Seminal vesicles | No gross observations on tissue. | SECRETORY PRODUCT: DECREASED, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Adrenal Glands  Brain  Coagulating Gl  Right Epididymis  Pituitary gland

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4062
PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Prostate | Spleen | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4063 |
|---|---|---|
| PHASE DAY OF DEATH: 113 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4064 |
|---|---|---|
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4065
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight.<br><br>CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Slight. |
| Liver . . . . . | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, <= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.<br><br>INTERSTITIUM: SUBACUTE/CHRONIC INFLAMMATION, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Pituitary gland |
| Prostate | Spleen | Seminal vesicles | Right Testis | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4066
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys | No gross observations on tissue. | CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight.<br><br>CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal.<br><br>CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATE, Minimal. |
| Lungs | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Liver |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4067 |
|---|---|---|
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4068 |
|---|---|---|
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4069
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice
PHASE DAY OF DEATH: 114

SEX: Male
PHASE: Dosing phase

ANIMAL: 4070
GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4071
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight.<br><br>CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Slight. |
| Liver . . . . . | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Pituitary gland |
| Prostate | Spleen | Seminal vesicles | Right Testis | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4072
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4073
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | | |
| | Scab/ Behind right ear | Examined; 1 correlation found:<br>EPITHELIUM: ULCER(S), Moderate.<br><br>EPITHELIUM: SQUAMOUS CELL HYPERPLASIA, Slight.<br><br>SUBACUTE (CHRONIC ACTIVE)/CHRONIC INFLAMMATION, Slight.<br><br>- Skin from ear. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4074
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4075 |
|---|---|---|
| PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4076
PHASE DAY OF DEATH: 114 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys | No gross observations on tissue. | CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight.<br><br>CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Slight.<br><br>CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATE, Minimal. |
| Liver | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Coagulating Gl | Right Epididymis | Lungs |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1551
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX/CORTICO-MEDULLARY JUNCTION: MINERAL DEPOSIT(S), Minimal. |
| Liver . . . . . | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Oviducts/Fallop . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment); one-of-pair missing.<br><br>- One oviduct is absent; uterine horn is present. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout<br><br>Hair Thin/Absent, General | No micropathology observations on tissue. |
| Uterus . . . . . | No gross observations on tissue. | MURAL HISTIOCYTIC INFILTRATE WITH BROWN PIGMENT, UNILATERAL, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Adrenal Glands  Brain  Ovaries  Pituitary gland  Spleen

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1551
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Vagina | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1552 |
|---|---|---|
| PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1553 |
|---|---|---|
| PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1554
PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | PERIVASCULAR GRANULOCYTIC INFILTRATE, Slight.<br><br>- Multifocal atelectasis. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Oviducts/Fallop |
| Ovaries | Pituitary gland | Spleen | Uterus | Vagina |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1555
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | Dilated Pelvis, Right, Moderate | Examined; 1 correlation found:<br>PELVIS: DILATED, UNILATERAL, Slight. |
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1556
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1557 |
| PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1558
PHASE DAY OF DEATH: 128 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1559
PHASE DAY OF DEATH: 99 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | Dilated Pelvis, Right, Severe | One-of-pair missing.<br>Examined; 1 correlation found:<br>PELVIS: DILATED, Moderate.<br><br>- Left kidney is missing. |
| Lungs . . . . . | No gross observations on tissue. | Tissue is missing. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Female — ANIMAL: 1560
PHASE DAY OF DEATH: 123 — PHASE: Dosing phase — GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | HEMORRHAGE, Focal, Minimal. |
| Uterus . . . . . | No gross observations on tissue. | MURAL HISTIOCYTIC INFILTRATE WITH BROWN PIGMENT, BILATERAL, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Oviducts/Fallop |
| Ovaries | Pituitary gland | Spleen | Vagina | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1561
PHASE DAY OF DEATH: 119 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX/CORTICO-MEDULLARY JUNCTION: MINERAL DEPOSIT(S), Minimal. |
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Uterus . . . . . | No gross observations on tissue. | MURAL HISTIOCYTIC INFILTRATE WITH BROWN PIGMENT, UNILATERAL, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Liver | Oviducts/Fallop | Ovaries |
| Pituitary gland | Spleen | Vagina | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1562
PHASE DAY OF DEATH: 108 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1563 |
|---|---|---|
| PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Lungs |
| Oviducts/Fallop | Ovaries | Pituitary gland | Spleen | Uterus |
| Vagina | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1564
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs | No gross observations on tissue. | PERIVASCULAR GRANULOCYTIC INFILTRATE, Minimal.<br><br>OSSEOUS METAPLASIA, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1565
PHASE DAY OF DEATH: 108 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1566 |
| PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1567 |
| PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1568
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Lungs |
| Oviducts/Fallop | Ovaries | Pituitary gland | Spleen | Uterus |
| Vagina | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1569
PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX/CORTICO-MEDULLARY JUNCTION: MINERAL DEPOSIT(S), Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Liver | Lungs | Oviducts/Fallop |
| Ovaries | Pituitary gland | Spleen | Uterus | Vagina |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1570
PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Lungs |
| Oviducts/Fallop | Ovaries | Pituitary gland | Spleen | Uterus |
| Vagina | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1571 |
|---|---|---|
| PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1572
PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | |
| | | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1573
PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | |
| | Discolored, Left lobe(s), Red, Foci, Slight/ 0.1 cm dia | Examined; 1 correlation found: CONGESTION, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1574 |
|---|---|---|
| PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1575
PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- One lobe has extensive atelectasis, the other has focal atelectasis. |
| Uterus . . . . . | No gross observations on tissue. | MURAL HISTIOCYTIC INFILTRATE WITH BROWN PIGMENT, BILATERAL, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Oviducts/Fallop |
| Ovaries | Pituitary gland | Spleen | Vagina | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice SEX: Female ANIMAL: 1576
PHASE DAY OF DEATH: 122 PHASE: Dosing phase GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Pituitary gland | . . . . No gross observations on tissue. | PARS DISTALIS: CYST(S), Present. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Lungs |
| Oviducts/Fallop | Ovaries | Spleen | Uterus | Vagina |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2551
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2552
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Female — ANIMAL: 2553
PHASE DAY OF DEATH: 119 — PHASE: Dosing phase — GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.<br><br>- One lobe is atelectatic. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2554
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2555 |
| PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2556
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- One lobe is atelectatic. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2557 |
| PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2558
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2559
PHASE DAY OF DEATH: 98 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2560
PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | |
| | Discolored, Tan, Foci, Slight/ Diaphragmatic lobe, 0.1 cm dia | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2561 |
|---|---|---|
| PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2562
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | PERIVASCULAR GRANULOCYTIC INFILTRATE, Minimal. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2563
PHASE DAY OF DEATH: 119 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout<br>Hair Thin/Absent, General | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2564
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | PERIVASCULAR GRANULOCYTIC INFILTRATE, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2565 |
| PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2566
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2567
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2568
PHASE DAY OF DEATH: 108 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2569 |
|---|---|---|
| PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2570
PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.<br><br>- One lobe is atelectatic. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2571 |
|---|---|---|
| PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2572
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2573 |
| PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2574
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2575
PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2576 |
|---|---|---|
| PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3551
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.<br><br>PERIVASCULAR GRANULOCYTIC INFILTRATE, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3552
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | PERIVASCULAR GRANULOCYTIC INFILTRATE, Minimal. |
| Oviducts/Fallop . . . . | Nodule, Right, Tan, Firm/ 0.2 - 0.3 cm dia | Examined; 1 correlation found:<br>LUMEN: DILATED, BILATERAL, Slight.<br><br>LUMEN: CELLULAR DEBRIS, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3553
PHASE DAY OF DEATH: 119 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3554
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3555
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3556
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Mammary gland . . . . . | No gross observations on tissue. | M-ADENOCARCINOMA, Unilateral. |
| Skin . . . . . | Mass, Tan, Firm/ Right lower lateral, 1.4 cm dia | Tissue is unremarkable (with comment). Examined; 1 correlation found: (Mammary gland) M-ADENOCARCINOMA, Unilateral.<br><br>- Mammary adenocarcinoma. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3557
PHASE DAY OF DEATH: 108 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3558
PHASE DAY OF DEATH: 124 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, Moderate/ 0.1 - 0.2 cm dia | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout<br>Hair Thin/Absent, General | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3559
PHASE DAY OF DEATH: 124 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, Moderate/ 0.1 - 0.2 cm dia | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3560
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | | No micropathology observations on tissue. |
| | Hair Thin/Absent, Extremities/Snout | |
| | Hair Thin/Absent, General | |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3561 |
| PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3562
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | |
| | Discolored, All lobes, Tan, Foci, Slight/ 0.1 cm dia | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3563 |
|---|---|---|
| PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3564
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | |
| | Discolored, All lobes, Tan, Foci, Slight/ 0.1 cm dia | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3565
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3566
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3567
PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3568 |
|---|---|---|
| PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3569 |
|---|---|---|
| PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3570 |
| PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3571
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3572
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | INTERSTITIUM: SUBACUTE/CHRONIC INFLAMMATION, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3573
PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3574 |
|---|---|---|
| PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3575 |
|---|---|---|
| PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3576 |
|---|---|---|
| PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4551
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, Moderate/ 0.2 - 0.3 cm dia | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4552
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | |
| | Discolored, All lobes, Tan, Foci, Moderate/ 0.1 cm dia | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4553 |
|---|---|---|
| PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4554 |
|---|---|---|
| PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | OSSEOUS METAPLASIA, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4555
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | |
| | | OSSEOUS METAPLASIA, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4556
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATE, Minimal. |
| Ovaries . . . . . | No gross observations on tissue. | RETICULOENDOTHELIAL CELLS: BROWN PIGMENT, Minimal. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |
| Uterus . . . . . | No gross observations on tissue. | MURAL HISTIOCYTIC INFILTRATE WITH BROWN PIGMENT, UNILATERAL, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Liver | Lungs | Oviducts/Fallop |
| Pituitary gland | Spleen | Vagina | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4557 |
|---|---|---|
| PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4558
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Liver . . . . . | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, Moderate/ 0.1 cm dia | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.<br><br>INTERSTITIUM: SUBACUTE/CHRONIC INFLAMMATION, Minimal. |
| Uterus . . . . . | No gross observations on tissue. | MURAL HISTIOCYTIC INFILTRATE WITH BROWN PIGMENT, UNILATERAL, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Oviducts/Fallop | Ovaries |
| Pituitary gland | Spleen | Vagina | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4559
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, White, Foci, 0.2 - 0.5 cm, Moderate | Examined; 1 correlation found: PERIVASCULAR GRANULOCYTIC INFILTRATE, Slight. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |
| Uterus . . . . . | No gross observations on tissue. | MURAL HISTIOCYTIC INFILTRATE WITH BROWN PIGMENT, UNILATERAL, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Oviducts/Fallop |
| Ovaries | Pituitary gland | Spleen | Vagina | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Female — ANIMAL: 4560
PHASE DAY OF DEATH: 122 — PHASE: Dosing phase — GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX/CORTICO-MEDULLARY JUNCTION: MINERAL DEPOSIT(S), Minimal. |
| Lungs . . . . . | No gross observations on tissue. | INTERSTITIUM: SUBACUTE/CHRONIC INFLAMMATION, Minimal. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |
| Uterus . . . . . | No gross observations on tissue. | MURAL HISTIOCYTIC INFILTRATE WITH BROWN PIGMENT, BILATERAL, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Liver | Oviducts/Fallop | Ovaries |
| Pituitary gland | Spleen | Vagina | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4561 |
|---|---|---|
| PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4562
PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4563
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4564 |
|---|---|---|
| PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4565
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4566
PHASE DAY OF DEATH: 124 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX/CORTICO-MEDULLARY JUNCTION: MINERAL DEPOSIT(S), Minimal. |
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, Slight/ 0.1 - 0.2 cm dia | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Uterus . . . . . | No gross observations on tissue. | MURAL HISTIOCYTIC INFILTRATE WITH BROWN PIGMENT, UNILATERAL, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Liver | Oviducts/Fallop | Ovaries |
| Pituitary gland | Spleen | Vagina | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4567
PHASE DAY OF DEATH: 124 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX/CORTICO-MEDULLARY JUNCTION: MINERAL DEPOSIT(S), Minimal. |
| Liver . . . . . | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |
| Uterus . . . . . | No gross observations on tissue. | MURAL HISTIOCYTIC INFILTRATE WITH BROWN PIGMENT, UNILATERAL, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Lungs | Oviducts/Fallop | Ovaries |
| Pituitary gland | Spleen | Vagina | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4568
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- One lobe is atelectatic. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4569
PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Liver . . . . . | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATES, Minimal. |
| Lungs . . . . . | No gross observations on tissue. | OSSEOUS METAPLASIA, Focal, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Oviducts/Fallop | Ovaries |
| Pituitary gland | Spleen | Uterus | Vagina | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4570
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Lungs |
| Oviducts/Fallop | Ovaries | Pituitary gland | Spleen | Uterus |
| Vagina | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4571
PHASE DAY OF DEATH: 131 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.<br><br>- One lobe is atelectatic. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4572 |
| PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4573
PHASE DAY OF DEATH: 121 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Uterus . . . . . | No gross observations on tissue. | MURAL HISTIOCYTIC INFILTRATE WITH BROWN PIGMENT, UNILATERAL, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Oviducts/Fallop |
| Ovaries | Pituitary gland | Spleen | Vagina | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4574 |
|---|---|---|
| PHASE DAY OF DEATH: 123 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4575
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
P0 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4576
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | Hair Thin/Absent, Extremities/Snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Lungs |
| Oviducts/Fallop | Ovaries | Pituitary gland | Spleen | Uterus |
| Vagina | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1001 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1002 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1003 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1004 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Kidneys | Liver |
| Lungs | Pituitary gland | Prostate | Spleen | Seminal vesicles |
| Right Testis | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1005
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Adrenal Glands | . . . . No gross observations on tissue. | Tissue is unremarkable; one-of-pair missing. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Right Epididymis | Kidneys | Liver | Lungs |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1006
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys | No gross observations on tissue. | CORTEX: MONONUCLEAR CELL INFILTRATE, UNILATERAL, Focal, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Liver | Lungs |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1007
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Adrenal Glands . . . . | Agenesis, Right | One-of-pair missing.<br>Examined; 1 correlation found:<br>ABSENT RIGHT ADRENAL GLAND, Present.<br><br>- One normal sized adrenal gland and one pituitary gland are present. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1008 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1009 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1010 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Kidneys | Liver |
| Lungs | Pituitary gland | Prostate | Spleen | Seminal vesicles |
| Right Testis | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1011
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Liver . . . . . | No gross observations on tissue. | ANGIECTASIA, Focal, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Kidneys | Lungs |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1012 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1013 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1014 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1015 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1016
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Liver . . . . . | | |
| | Adhesion, Severe/ Median, Left, Right lobes and Pancreas to the Diaphragm<br>Median lobe to the Left lobe | Examined; 2 correlations found:<br>FIBROSIS, Slight.<br><br>DIAPHRAGMATIC ADHESION, Present.<br><br>ANGIECTASIA, Minimal.<br><br>COAGULATIVE NECROSIS, Slight.<br><br>MINERALIZATION, Minimal.<br><br>RETICULOENDOTHELIAL CELLS: BROWN PIGMENT, Slight.<br><br>- Capsular and bridging periportal fibrosis. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1017 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Kidneys | Liver |
| Lungs | Pituitary gland | Prostate | Spleen | Seminal vesicles |
| Right Testis | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1018 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1019 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1020
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Kidneys | Liver |
| Lungs | Pituitary gland | Prostate | Spleen | Seminal vesicles |
| Right Testis | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1021 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Kidneys | Liver |
| Lungs | Pituitary gland | Prostate | Spleen | Seminal vesicles |
| Right Testis | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1022 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1023
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Kidneys | Liver |
| Lungs | Pituitary gland | Prostate | Spleen | Seminal vesicles |
| Right Testis | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1024
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Skin . . . . . | Hair Thin/Absent, Extremities/snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Found Dead | SEX: Male | ANIMAL: 1025
PHASE DAY OF DEATH: 197 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Thymus . . . . . | | |
| | Discolored, Red, Foci, 0.2 - 0.5 cm, Moderate/ Both lobes | Examined; 1 correlation found: CONGESTION, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1026
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Kidneys | Liver |
| Lungs | Pituitary gland | Prostate | Spleen | Seminal vesicles |
| Right Testis | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2001 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2002 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 2003
PHASE DAY OF DEATH: 247 — PHASE: Dosing phase — GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Left Epididymis . . . . | Small, Moderate | Examined; 1 correlation found:<br>ASPERMIA, Present. |
| Liver . . . . . | Herniated, Medial lobe, 0.2 - 0.5 cm, Slight | Examined; 1 correlation found:<br>CAPSULAR PARENCHYMAL NODULE, Present.<br><br>ANGIECTASIA, Minimal.<br><br>FIBROSIS, Slight. |
| Left Testis . . . . . | Small, Moderate | Examined; 1 correlation found:<br>GERMINAL EPITHELIUM:<br>DEGENERATION/ATROPHY, Marked. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2004 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2005
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2006 |
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2007 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2008 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2009
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.<br><br>INTERSTITIUM: SUBACUTE/CHRONIC INFLAMMATION, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2010
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | Hair Thin/Absent, Extremities/snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2011 |
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2012 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2013
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2014 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2015 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2016 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2017
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Skin . . . . . | Hair Thin/Absent, Extremities/snout | No micropathology observations on tissue. |
| Thymus . . . . . | Discolored, Left lobe, Red, Foci, 0.2 - 0.5 cm, Moderate | Examined; 1 correlation found: CONGESTION, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2018 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2019
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is missing. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2020 |
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2021
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | | |
| | Dilated Pelvis, Right, Moderate | Examined; 1 correlation found:<br>PELVIS: DILATED, UNILATERAL, Slight.<br><br>CORTEX: MONONUCLEAR CELL INFILTRATE, Minimal.<br><br>CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2022 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2023
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | | |
| | Scab, Upper dorsal, Red, Lateral, 0.2 - 0.5 cm/ Right side (5) | Examined; 1 correlation found:<br>SURFACE: INFLAMMATORY CELLS/CELL DEBRIS, Moderate.<br><br>EPITHELIUM: SQUAMOUS CELL HYPERPLASIA, Moderate.<br><br>EPITHELIUM: ULCER(S), Focal, Slight.<br><br>DERMAL FIBROSIS, Slight.<br><br>DERMAL MONONUCLEAR CELL INFIILTRATE, Slight. |
| Thymus . . . . . | | |
| | Discolored, Left lobe, Red, Foci, 0.2 - 0.5 cm, Slight | Examined; 1 correlation found:<br>CONGESTION, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2024 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2025 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2026
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3001
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Moderate | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3002 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3003 |
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3004 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3005 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 3006
PHASE DAY OF DEATH: 247 — PHASE: Dosing phase — GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Liver . . . . . | | |
| | Adhesion, Severe/ Between right lobes and right kidney | Examined; 1 correlation found:<br>FIBROSIS, Slight. |
| | Nodule, Tan, 0.2 - 0.5 cm/ At adhesion site | Examined; 1 correlation found:<br>CAPSULAR PARENCHYMAL NODULE, Present.<br><br>COAGULATIVE NECROSIS, Slight.<br><br>MINERALIZATION, Minimal.<br><br>RETICULOENDOTHELIAL CELLS: BROWN PIGMENT, Slight. |
| Lungs . . . . . | | |
| | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Moderate | Examined; 1 correlation found:<br>ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3007
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.<br><br>- Both lobes are atelectatic. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3008
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3009 |
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 3010
PHASE DAY OF DEATH: 247 — PHASE: Dosing phase — GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Right Epididymis . . . | Small, Moderate | Examined; 1 correlation found:<br>OLIGOSPERMIA, Present. |
| Skin . . . . . | Hair Thin/Absent, Extremities/snout | No micropathology observations on tissue. |
| Right Testis . . . . . | Small, Soft, Slight | Examined; 1 correlation found:<br>GERMINAL EPITHELIUM:<br>DEGENERATION/ATROPHY, Moderate.<br><br>- Half of seminiferous tubules present have severe degeneration with absence of germinal cells. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3011
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Adrenal Glands . . . . | | One-of-pair missing. |
| | Agenesis, Right | Examined; 1 correlation found:<br>ABSENT RIGHT ADRENAL GLAND, Present. |
| | Enlarged, Left, Moderate | Examined; no correlation found |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3012 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3013 |
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3014
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3015
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3016 |
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3017
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | Cyst, Right, Clear, Cortex, 0.2 - 0.5 cm, Moderate | Tissue is missing. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3018 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3019
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, UNILATERAL, Slight.<br><br>RETICULOENDOTHELIAL CELLS: BROWN PIGMENT, UNILATERAL, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3020
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | | |
| | Cyst, Bilateral, Clear, Cortex, 0.2 - 0.5 cm, Moderate | Examined; 1 correlation found: SUBCAPSULAR PARENCHYMAL LOSS, BILATERAL, Focal, Present. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3021
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Adrenal Glands . . . . | | |
| | Discolored, Right, Red, Moderate | Examined; 1 correlation found: CORTEX: ATROPHY, UNILATERAL, Diffuse, Slight. |
| | Small, Right, Moderate | Examined; 1 correlation found: CORTEX: ATROPHY, UNILATERAL, Diffuse, Slight.<br><br>- One adrenal gland (right, presumptive) lacks capsule and zona glomerulosa, has an irregular outer surface, and has expanded medulla. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3022 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3023 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3024 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3025 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3026 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4001
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys | No gross observations on tissue. | CORTEX: MONONUCLEAR CELL INFILTRATE, Minimal.<br><br>CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal.<br><br>CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE DROPLETS, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Liver | Lungs |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Found Dead | SEX: Male | ANIMAL: 4002
PHASE DAY OF DEATH: 227 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Eyes . . . . . | Discolored, Left, Red, Moderate | Tissue is autolytic and readable.<br>Examined; 1 correlation found:<br>CHOROID: CONGESTION, UNILATERAL, Moderate.<br><br>LENS: CATARACTOUS CHANGE, UNILATERAL, Slight. |
| Kidneys . . . . . | Dilated Pelvis, Right, Slight | Examined; 1 correlation found:<br>PELVIS: DILATED, UNILATERAL, Minimal.<br><br>CONGESTION, Slight. |
| Lungs . . . . . | No gross observations on tissue. | HEMORRHAGE(S), Moderate.<br><br>CONGESTION, Moderate. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4003
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.<br><br>RETICULOENDOTHELIAL CELLS: BROWN PIGMENT, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4004
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Slight.<br><br>CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE DROPLETS, Moderate.<br><br>CORTEX/CORTICO-MEDULLARY JUNCTION: TUBULAR LUMENS- GRANULAR CASTS, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Liver | Lungs |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Found Dead | SEX: Male | ANIMAL: 4005
PHASE DAY OF DEATH: 188 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Cavity . . . . . | | |
| | Abnormal Contents, Thoracic, Red, Gelatinous material, Severe | Examined; 1 correlation found: TISSUE FOR HISTOPATHOLOGY: INAPPLICABLE, Present. |
| Lungs . . . . . | | |
| | Discolored, Left lobe(s), Red, Areas, Moderate/ 0.5 - 2.0 cm | |
| | | HEMORRHAGE(S), Multifocal, Moderate. |
| | | - Lobes are presented on two separate slides. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4006 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4007 |
|---|---|---|
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4008
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4009
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal.<br><br>CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE DROPLETS, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Liver | Lungs |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4010 |
| PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4011
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys | No gross observations on tissue. | CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal.<br><br>CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE DROPLETS, Slight. |
| Liver | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATE(S), Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Lungs | Pituitary gland |
| Prostate | Spleen | Seminal vesicles | Right Testis | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4012
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4013
PHASE DAY OF DEATH: 247 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal.<br><br>CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE DROPLETS, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Liver | Lungs |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4014
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | |
| | | CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal. |
| | | CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE DROPLETS, Slight. |
| Liver . . . . . | No gross observations on tissue. | |
| | | MONONUCLEAR CELL AGGREGATE(S), Minimal. |
| Lungs . . . . . | No gross observations on tissue. | |
| | | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Pituitary gland | Prostate |
| Spleen | Seminal vesicles | Right Testis | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 4015
PHASE DAY OF DEATH: 248 — PHASE: Dosing phase — GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys | No gross observations on tissue. | CORTEX: MONONUCLEAR CELL INFILTRATE, Minimal.<br><br>CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal.<br><br>CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE DROPLETS, Slight. |
| Liver | No gross observations on tissue. | MONONUCLEAR CELL AGGREGATE(S), Minimal. |
| Lungs | No gross observations on tissue. | INTERSTITIUM: SUBACUTE/CHRONIC INFLAMMATION, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Pituitary gland | Prostate |
| Spleen | Seminal vesicles | Right Testis | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4016
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4017
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys | No gross observations on tissue. | CORTEX: MONONUCLEAR CELL INFILTRATE, Minimal.<br><br>CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Slight.<br><br>CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE DROPLETS, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Liver | Lungs |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4018 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4019 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4020
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE DROPLETS, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Liver | Lungs |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4021 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4022
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | Hair Thin/Absent, Extremities/snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4023 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4024 |
|---|---|---|
| PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4025
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal.<br><br>CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE DROPLETS, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Right Epididymis | Liver | Lungs |
| Pituitary gland | Prostate | Spleen | Seminal vesicles | Right Testis |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4026
PHASE DAY OF DEATH: 248 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | Hair Thin/Absent, Extremities/snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1501
PHASE DAY OF DEATH: 256 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | | |
| | Dilated Pelvis, Right, Moderate | Examined; 1 correlation found:<br>PELVIS: DILATED, UNILATERAL, Slight.<br><br>MEDULLA: TUBULE(S) DILATED, UNILATERAL, Focal, Minimal.<br><br>MEDULLA: TUBULAR LUMEN(S)-EOSINOPHILIC MATERIAL, UNILATERAL, Focal, Minimal. |
| Skin . . . . . | | No micropathology observations on tissue. |
| | Hair Thin/Absent, Extremities/snout | |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Liver | Lungs | Oviducts/Fallop |
| Ovaries | Pituitary gland | Spleen | Uterus | Vagina |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1502
PHASE DAY OF DEATH: 257 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Uterus | No gross observations on tissue. | INTRAMURAL HISTIOCYTES, BROWN PIGMENT, UNILATERAL, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Lungs |
| Oviducts/Fallop | Ovaries | Pituitary gland | Spleen | Vagina |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1503
PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Uterus | . . . . . No gross observations on tissue. | INTRAMURAL HISTIOCYTES, BROWN PIGMENT, UNILATERAL, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Lungs |
| Oviducts/Fallop | Ovaries | Pituitary gland | Spleen | Vagina |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1504
PHASE DAY OF DEATH: 259 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Lungs |
| Oviducts/Fallop | Ovaries | Pituitary gland | Spleen | Uterus |
| Vagina | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1505
PHASE DAY OF DEATH: 256 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Tissue is unremarkable. Examined; no correlation found |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1506
PHASE DAY OF DEATH: 255 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | |
| | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1507
PHASE DAY OF DEATH: 242 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1508 |
|---|---|---|
| PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1509
PHASE DAY OF DEATH: 235 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |
| Skin . . . . . | Hair Thin/Absent, Extremities/snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1510
PHASE DAY OF DEATH: 255 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | Hair Thin/Absent, Extremities/snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1511 |
|---|---|---|
| PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1512
PHASE DAY OF DEATH: 252 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1513 |
| PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1514
PHASE DAY OF DEATH: 242 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1515 |
|---|---|---|
| PHASE DAY OF DEATH: 242 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1516
PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Oviducts/Fallop | . . . . No gross observations on tissue. | DILATED LUMEN, UNILATERAL, Moderate.<br><br>LUMENAL NEUTROPHILS, MACROPHAGES, UNILATERAL, Moderate. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Lungs |
| Ovaries | Pituitary gland | Spleen | Uterus | Vagina |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1517
PHASE DAY OF DEATH: 256 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Thymus . . . . . | | |
| | Discolored, Red, Foci, 0.2 - 0.5 cm, Moderate/ Both lobes | Examined; 1 correlation found: CONGESTION, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Lungs |
| Oviducts/Fallop | Ovaries | Pituitary gland | Spleen | Uterus |
| Vagina | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1518
PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | Hair Thin/Absent, Extremities/snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1519
PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1520
PHASE DAY OF DEATH: 228 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1521
PHASE DAY OF DEATH: 258 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys | No gross observations on tissue. | CORTEX/CORTICO-MEDULLARY JUNCTION: MINERAL DEPOSIT(S), UNILATERAL, Focal, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Liver | Lungs | Oviducts/Fallop |
| Ovaries | Pituitary gland | Spleen | Uterus | Vagina |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1522 |
|---|---|---|
| PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 1 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1523
PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- One lobe is slightly atelectatic. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Oviducts/Fallop |
| Ovaries | Pituitary gland | Spleen | Uterus | Vagina |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1524
PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1525
PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX: MONONUCLEAR CELL INFILTRATE, UNILATERAL, Focal, Minimal.<br><br>CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, BILATERAL, Minimal. |
| Liver . . . . . | Discolored, Left lobe, Red, Focus, 0.2 - 0.5 cm, Slight | Examined; 1 correlation found: ANGIECTASIA, Minimal. |
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Uterus . . . . . | No gross observations on tissue. | INTRAMURAL HISTIOCYTES, BROWN PIGMENT, UNILATERAL, Focal, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Oviducts/Fallop | Ovaries | Pituitary gland |
| Spleen | Vagina | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1526
PHASE DAY OF DEATH: 260 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Oviducts/Fallop . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment); one-of-pair missing.<br><br>- A fragment of ovary is present unilaterally. |
| Ovaries . . . . . | No gross observations on tissue. | Tissue is unremarkable; one-of-pair missing. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Lungs |
| Pituitary gland | Spleen | Uterus | Vagina | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Female — ANIMAL: 2501
PHASE DAY OF DEATH: 254 — PHASE: Dosing phase — GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Eyes . . . . . | | |
| | Opacity, Left, Severe | Examined; 1 correlation found:<br>LENS: MINERALIZATION, Moderate. |
| | Enophthalmia, Left, Severe | Examined; 1 correlation found:<br>PHTHYSIS BULBI, Present.<br><br>- Left eye comprises lens and corneoscleral coat. Uvea, vitreous, and retina are absent. |
| Lungs . . . . . | | Tissue is unremarkable. |
| | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; no correlation found |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2502
PHASE DAY OF DEATH: 256 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.<br><br>- One lobe is atelectatic. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2503 |
| PHASE DAY OF DEATH: 257 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2504 |
|---|---|---|
| PHASE DAY OF DEATH: 255 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2505
PHASE DAY OF DEATH: 252 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | |
| | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Moderate | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2506
PHASE DAY OF DEATH: 258 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2507
PHASE DAY OF DEATH: 255 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Thymus . . . . . | Discolored, Left lobe, Red, Foci, 0.2 - 0.5 cm, Slight | Examined; 1 correlation found: CONGESTION, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2508 |
|---|---|---|
| PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2509
PHASE DAY OF DEATH: 255 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2510
PHASE DAY OF DEATH: 255 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2511
PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | |
| | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2512 |
|---|---|---|
| PHASE DAY OF DEATH: 255 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2513
PHASE DAY OF DEATH: 242 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2514
PHASE DAY OF DEATH: 242 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2515 |
|---|---|---|
| PHASE DAY OF DEATH: 255 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2516
PHASE DAY OF DEATH: 242 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2517 |
|---|---|---|
| PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2518 |
|---|---|---|
| PHASE DAY OF DEATH: 256 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2519
PHASE DAY OF DEATH: 255 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | |
| | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Moderate | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Slight.<br><br>INTERSTITIUM: SUBACUTE/CHRONIC INFLAMMATION, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2520
PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, Tan, Foci, </= 0.1 cm, Slight/ Left and diaphragmatic lobes | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Thymus . . . . . | Discolored, Left lobe, Red, Foci, </= 0.1 cm, Moderate | Examined; 1 correlation found: CONGESTION, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2521
PHASE DAY OF DEATH: 256 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2522 |
|---|---|---|
| PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2523
PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Both lobes are atelectatic. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2524
PHASE DAY OF DEATH: 242 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2525
PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2526
PHASE DAY OF DEATH: 228 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3501
PHASE DAY OF DEATH: 255 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | Cyst, Left, Clear, Cortex, Slight/ 0.1 - 0.2 cm in diameter | Tissue is unremarkable. |
| Lungs . . . . . | Discolored, All lobes, White, Foci, 0.2 - 0.5 cm, Moderate | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3502
PHASE DAY OF DEATH: 242 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3503
PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3504
PHASE DAY OF DEATH: 242 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3505
PHASE DAY OF DEATH: 256 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3506
PHASE DAY OF DEATH: 242 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3507
PHASE DAY OF DEATH: 256 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Moderate | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Thymus . . . . . | Discolored, Red, Foci, </= 0.1 cm, Slight/ Both lobes | Examined; 1 correlation found: CONGESTION, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3508
PHASE DAY OF DEATH: 261 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | |
| | Discolored, All lobes, Tan, Foci, 0.2 - 0.5 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3509 |
|---|---|---|
| PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3510 |
|---|---|---|
| PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3511
PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | |
| | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found:<br>ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.<br><br>- One lobe is atelectatic. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3512 |
|---|---|---|
| PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Skin . . . . . | Hair Thin/Absent, Extremities/snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3513
PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Moderate | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3514 |
| PHASE DAY OF DEATH: 256 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3515 |
|---|---|---|
| PHASE DAY OF DEATH: 255 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3516 |
|---|---|---|
| PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3517 |
|---|---|---|
| PHASE DAY OF DEATH: 256 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3518
PHASE DAY OF DEATH: 256 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3519 |
| PHASE DAY OF DEATH: 256 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3520
PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | |
| | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3521
PHASE DAY OF DEATH: 256 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3522
PHASE DAY OF DEATH: 257 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Thymus . . . . . | | |
| | Discolored, Left lobe, Red, Foci, 0.2 - 0.5 cm, Slight | Examined; 1 correlation found: CONGESTION, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3523
PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3524
PHASE DAY OF DEATH: 266 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3525
PHASE DAY OF DEATH: 255 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- One lobe is atelectatic. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3526
PHASE DAY OF DEATH: 256 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | Cyst, Right, Clear, Cortex, </= 0.1 cm, Slight | Tissue is unremarkable. Examined; no correlation found |
| Thymus . . . . . | Discolored, Left lobe, Red, Foci, 0.2 - 0.5 cm, Slight | Examined; 1 correlation found: CONGESTION, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4501 |
|---|---|---|
| PHASE DAY OF DEATH: 252 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4502
PHASE DAY OF DEATH: 264 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Moderate | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4503
PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Oviducts/Fallop |
| Ovaries | Pituitary gland | Spleen | Uterus | Vagina |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4504
PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Tissue is unremarkable. Examined; no correlation found |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Oviducts/Fallop |
| Ovaries | Pituitary gland | Spleen | Uterus | Vagina |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4505
PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | |
| | Discolored, Tan, Foci, </= 0.1 cm, Slight/ Left, cardiac and diaphragmatic lobes | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4506
PHASE DAY OF DEATH: 256 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Liver . . . . . | Discolored, Right lobe, Tan, Focus, 0.2 - 0.5 cm, Slight | Examined; 2 correlations found:<br>RETICULOENDOTHELIAL CELLS: BROWN PIGMENT, Minimal.<br>PERIVENULAR BRIDGING HISTIOCYTIC INFILTRATE, Slight. |
| Lungs . . . . . | No gross observations on tissue. | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4507
PHASE DAY OF DEATH: 255 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, White, Foci, 0.2 - 0.5 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| Skin . . . . . | Hair Thin/Absent, Extremities/snout | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4508
PHASE DAY OF DEATH: 258 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | |
| | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Moderate | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4509
PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4510
PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | | |
| | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Moderate | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4511
PHASE DAY OF DEATH: 255 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4512 |
|---|---|---|
| PHASE DAY OF DEATH: 256 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Lungs |
| Oviducts/Fallop | Ovaries | Pituitary gland | Spleen | Uterus |
| Vagina | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Humane/Otherwise Specified | SEX: Female | ANIMAL: 4513
PHASE DAY OF DEATH: 198 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, Left lobe(s), Red, Areas, Moderate/ 0.5 - 1.5 cm dia | |
| | | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| | | HEMORRHAGE(S), Slight. |
| | | - Two slides presented. |
| Skin . . . . . | | Tissue is missing. |
| | Hemorrhage, Dorsal, Red, Subcutaneous, Slight/ Sacral area, 1.5 x 0.5 cm Lower lumbar and sacral spinal column with hindlimbs, saved | |
| | | - Dorsal skin is absent. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4514
PHASE DAY OF DEATH: 242 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Tissue not saved per memo. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4515
PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Oviducts/Fallop |
| Ovaries | Pituitary gland | Spleen | Uterus | Vagina |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4516
PHASE DAY OF DEATH: 255 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, </= 0.1 cm, Moderate | ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4517
PHASE DAY OF DEATH: 260 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Tissue is unremarkable. Examined; no correlation found |
| Uterus . . . . . | No gross observations on tissue. | INTRAMURAL HISTIOCYTES, BROWN PIGMENT, UNILATERAL, Slight. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Oviducts/Fallop |
| Ovaries | Pituitary gland | Spleen | Vagina | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4518
PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Lungs |
| Oviducts/Fallop | Ovaries | Pituitary gland | Spleen | Uterus |
| Vagina | | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4519
PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX/CORTICO-MEDULLARY JUNCTION: MINERAL DEPOSIT(S), UNILATERAL, Focal, Minimal. |
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Liver | Oviducts/Fallop | Ovaries |
| Pituitary gland | Spleen | Uterus | Vagina | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4520
PHASE DAY OF DEATH: 257 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Sternum . . . . . | | |
| | Malformed, Body, Moderate/ Misshapen | Examined; 1 correlation found: STERNAL BIFURCATION, Present. |
| Lungs . . . . . | | |
| | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Moderate | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal. |
| | Discolored, All lobes, Red, Foci, 0.2 - 0.5 cm, Slight | Examined; no correlation found |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
No tissues examined.

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4521
PHASE DAY OF DEATH: 254 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTICAL SCAR, UNILATERAL, Focal, Minimal. |
| Tail . . . . . | Missing, Distal/ Tip | Examined; 1 correlation found:<br>FOLLICULITIS, Focal, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Liver | Lungs | Oviducts/Fallop |
| Ovaries | Pituitary gland | Spleen | Uterus | Vagina |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4522 |
|---|---|---|
| PHASE DAY OF DEATH: 388 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4523 |
|---|---|---|
| PHASE DAY OF DEATH: 253 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4524
PHASE DAY OF DEATH: 255 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Kidneys . . . . . | No gross observations on tissue. | CORTEX: MONONUCLEAR CELL INFILTRATE, Minimal. |
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, 0.2 - 0.5 cm, Moderate | Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.<br><br>RETICULOENDOTHELIAL CELLS: BROWN PIGMENT, Focal, Minimal. |
| Oviducts/Fallop . . . . | No gross observations on tissue. | DILATED LUMEN, UNILATERAL, Minimal.<br><br>LUMENAL NEUTROPHILS, MACROPHAGES, UNILATERAL, Minimal. |
| Uterus . . . . . | No gross observations on tissue. | INTRAMURAL HISTIOCYTES, BROWN PIGMENT, UNILATERAL, Minimal. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Liver | Ovaries | Pituitary gland |
| Spleen | Vagina | | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4525 |
|---|---|---|
| PHASE DAY OF DEATH: 256 | PHASE: Dosing phase | GROUP: 4 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Parental Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4526
PHASE DAY OF DEATH: 255 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight | Tissue is unremarkable. Examined; no correlation found |
| Skin . . . . . | Hair Thin/Absent, General | No micropathology observations on tissue. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Adrenal Glands | Brain | Kidneys | Liver | Oviducts/Fallop |
| Ovaries | Pituitary gland | Spleen | Uterus | Vagina |

| | | |
|---|---|---|
| | Individual Animal Gross and Microscopic Observations for Neuropathology Evaluations of $F_1$ Pups Preface | Appendix BB |

**Key to Abbreviations**

| | | |
|---|---|---|
| SC | = | Spinal Cord |
| Gang | = | Ganglia |
| Fibr | = | Fiber |
| Ventrl | = | Ventral |

**Note**

Unless otherwise specified in a histopathology note, the organ/tissue examined was the required (routine) section.

**Corresponding exposure levels for each group were as follows:**

Group 1 - 0 mg/m$^3$
Group 2 - 2,000 mg/m$^3$
Group 3 - 10,000 mg/m$^3$
Group 4 - 20,000 mg/m$^3$

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1561-4
PHASE DAY OF DEATH: 119 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Tibial Nerve |
| Sural Nerve | Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr |
| Optic nerve | Cervical SC | Thoracic SC | Lumbar SC | Trachea |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 1571-1
PHASE DAY OF DEATH: 120 — PHASE: Dosing phase — GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Tibial Nerve | . . . . . No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Transverse section is missing. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Sural Nerve |
| Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr | Optic nerve |
| Cervical SC | Thoracic SC | Lumbar SC | Trachea | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 1574-4
PHASE DAY OF DEATH: 120 — PHASE: Dosing phase — GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Sural Nerve . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Transverse section of sural nerve is absent. |
| Trigeminal Gang . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Pituitary is present with trigeminal ganglion. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Tibial Nerve |
| Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr | Optic nerve | Cervical SC |
| Thoracic SC | Lumbar SC | Trachea | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Male — ANIMAL: 1551-8
PHASE DAY OF DEATH: 122 — PHASE: Dosing phase — GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Eyes | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Globe section lacks cornea and uvea and has lens displacement. |
| Tibial Nerve | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Longitudinal sections of tibial nerve are absent. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Lungs | Sciatic Nerve | Sural Nerve | Trigeminal Gang |
| Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr | Optic nerve | Cervical SC |
| Thoracic SC | Lumbar SC | Trachea | | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 1576-8
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Tibial Nerve |
| Sural Nerve | Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr |
| Optic nerve | Cervical SC | Thoracic SC | Lumbar SC | Trachea |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2563-6
PHASE DAY OF DEATH: 119 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2551-1
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2567-9
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2569-7
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 2555-2 |
| PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3553-3
PHASE DAY OF DEATH: 119 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3555-2
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3564-6 |
| PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3571-2
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 3575-5
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4558-3
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Sural Nerve . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Transverse section is absent. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Tibial Nerve |
| Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr | Optic nerve |
| Cervical SC | Thoracic SC | Lumbar SC | Trachea | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4561-5
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Tibial Nerve |
| Sural Nerve | Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr |
| Optic nerve | Cervical SC | Thoracic SC | Lumbar SC | Trachea |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4575-6
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Tibial Nerve |
| Sural Nerve | Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr |
| Optic nerve | Cervical SC | Thoracic SC | Lumbar SC | Trachea |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4576-6
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Tibial Nerve |
| Sural Nerve | Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr |
| Optic nerve | Cervical SC | Thoracic SC | Lumbar SC | Trachea |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Male | ANIMAL: 4556-9
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Tibial Nerve |
| Sural Nerve | Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr |
| Optic nerve | Cervical SC | Thoracic SC | Lumbar SC | Trachea |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice SEX: Female ANIMAL: 1561-11
PHASE DAY OF DEATH: 119 PHASE: Dosing phase GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Tibial Nerve |
| Sural Nerve | Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr |
| Optic nerve | Cervical SC | Thoracic SC | Lumbar SC | Trachea |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice
PHASE DAY OF DEATH: 120

SEX: Female
PHASE: Dosing phase

ANIMAL: 1574-12
GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Tibial Nerve |
| Sural Nerve | Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr |
| Optic nerve | Cervical SC | Thoracic SC | Lumbar SC | Trachea |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1574-15
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Tibial Nerve |
| Sural Nerve | Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr |
| Optic nerve | Cervical SC | Thoracic SC | Lumbar SC | Trachea |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1551-13
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Tibial Nerve | . . . . . No gross observations on tissue. | Tissue is missing. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Sural Nerve |
| Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr | Optic nerve |
| Cervical SC | Thoracic SC | Lumbar SC | Trachea | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 1576-9
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 1

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Tibial Nerve |
| Sural Nerve | Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr |
| Optic nerve | Cervical SC | Thoracic SC | Lumbar SC | Trachea |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2563-11 |
| PHASE DAY OF DEATH: 119 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2551-11
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Lungs . . . . . | No gross observations on tissue. | BRONCHIECTASIS, Moderate. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2567-14 |
| PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 2 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2569-12
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 2555-14
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 2

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3553-10
PHASE DAY OF DEATH: 119 | PHASE: Dosing phase | GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3555-8 |
| PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice
PHASE DAY OF DEATH: 120

SEX: Female
PHASE: Dosing phase

ANIMAL: 3564-16
GROUP: 3

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3571-9 |
| PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

| | | |
|---|---|---|
| STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 3575-10 |
| PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 3 |

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Lungs Trachea

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4558-8
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Tibial Nerve |
| Sural Nerve | Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr |
| Optic nerve | Cervical SC | Thoracic SC | Lumbar SC | Trachea |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4561-9
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Tibial Nerve |
| Sural Nerve | Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr |
| Optic nerve | Cervical SC | Thoracic SC | Lumbar SC | Trachea |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4575-14
PHASE DAY OF DEATH: 120 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Tibial Nerve |
| Sural Nerve | Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr |
| Optic nerve | Cervical SC | Thoracic SC | Lumbar SC | Trachea |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice — SEX: Female — ANIMAL: 4576-9
PHASE DAY OF DEATH: 120 — PHASE: Dosing phase — GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Brain . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Pineal body is present with caudal colliculus. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Eyes | Lungs | Sciatic Nerve | Tibial Nerve | Sural Nerve |
| Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr | Optic nerve |
| Cervical SC | Thoracic SC | Lumbar SC | Trachea | |

Gasoline MTBE Vapor Condensate: A Two-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
F1 Neurotoxicity Animals
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice | SEX: Female | ANIMAL: 4556-12
PHASE DAY OF DEATH: 122 | PHASE: Dosing phase | GROUP: 4

| Tissue | Gross Observations/Comments | Microscopic Observations/Comments |
|---|---|---|
| Optic nerve . . . . . | No gross observations on tissue. | Tissue is unremarkable (with comment).<br><br>- Optic nerve is present with globe in slide G, but absent from slide H. |

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

| | | | | |
|---|---|---|---|---|
| Brain | Eyes | Lungs | Sciatic Nerve | Tibial Nerve |
| Sural Nerve | Trigeminal Gang | Dorsal Root Gang | Dorsal Root Fibr | Ventrl Root Fibr |
| Cervical SC | Thoracic SC | Lumbar SC | Trachea | |