

Study Number: MOG002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA18R: Non-Neoplastic Lesions with Mean Severity Grade and Litter Incidence
Test Compound: 2-Hydroxy-4-methoxybenzophenone
CAS Number: 131-57-7

Date Report Requested: 12/13/2019
Time Report Requested: 13:30:42
Lab: RTI

C Number: MOG002B
Study Gender: Both
PWG Approval Date See web page for date of PWG Approval

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| | F0 Female | | | | |
|--|------------------------|------|-------|-------|-------------|
| | Treatment Groups (ppm) | | | | |
| | 0 | 3000 | 10000 | 30000 | 0.05 ppm EE |
| Disposition Summary | | | | | |
| Animals Initially In Study | 25 | 25 | 25 | 25 | 25 |
| Early Deaths | | | | | |
| Euthanized, moribund | | | | | 1 |
| Scheduled Deaths | | | | | |
| Scheduled sacrifice, terminal (GD 24, LD 4 - 28, SD 24 - 27) | 25 | 25 | 25 | 25 | 24 |
| Animals Examined Microscopically | 1 | | 1 | 7 | 1 |
| ALIMENTARY SYSTEM | | | | | |
| LIVER | (0) | (0) | (0) | (0) | (1) |
| CARDIOVASCULAR SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| ENDOCRINE SYSTEM | | | | | |
| ADRENAL GLANDS | (0) | (0) | (0) | (0) | (1) |
| GENERAL BODY SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| GENITAL SYSTEM | | | | | |
| UTERUS | (0) | (0) | (1) | (4) | (0) |
| VAGINA | (0) | (0) | (0) | (2) | (0) |
| HEMATOLYMPHOID SYSTEM | | | | | |
| SPLEEN | (0) | (0) | (0) | (0) | (1) |
| INTEGUMENTARY SYSTEM | | | | | |
| MAMMARY GLANDS | (0) | (0) | (0) | (1) | (0) |
| MUSCULOSKELETAL SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| NERVOUS SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |

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F0 Female

Treatment Groups (ppm)

0 3000 10000 30000 0.05 ppm EE

RESPIRATORY SYSTEM

No Tissues/Organs Examined

SPECIAL SENSES SYSTEM

No Tissues/Organs Examined

URINARY SYSTEM

| | 0 | 3000 | 10000 | 30000 | 0.05 ppm EE |
|---|---------|------|-------|---------|-------------|
| KIDNEYS | (1) | (0) | (0) | (3) | (0) |
| CHRONIC PROGRESSIVE NEPHROPATHY | 1 [1.0] | | | 1 [1.0] | |
| RENAL TUBULE; DILATION | | | | 3 [2.0] | |
| UROTHELIUM; HYPERPLASIA; FOCAL | | | | 2 [1.5] | |
| INTERSTITIUM; BILATERAL; INFLAMMATION; FOCAL, CHRONIC ACTIVE | | | | 1 [1.0] | |
| INTERSTITIUM; INFLAMMATION; CHRONIC ACTIVE | | | | 1 [2.0] | |
| INTERSTITIUM; INFLAMMATION; CHRONIC ACTIVE (TOTAL) | | | | 2 [1.5] | |
| PAPILLA; NECROSIS | | | | 1 [2.0] | |
| RENAL TUBULE; EPITHELIUM; REGENERATION | | | | 2 [2.0] | |

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| | F1 Male: Prenatal Male | | | | |
|---|------------------------|-------------|-------|-------|-------------|
| | Treatment Groups (ppm) | | | | |
| | 0 | 3000 | 10000 | 30000 | 0.05 ppm EE |
| Disposition Summary | | | | | |
| Animals Initially In Study | 23 | 20 | 22 | 20 | 15 |
| Early Deaths | | | | | |
| Scheduled Deaths | | | | | |
| Scheduled sacrifice, terminal (PND 111 - 113) | 23 | 20 | 22 | 20 | 15 |
| Animals Examined Microscopically | 5 | 1 | 2 | 15 | 1 |
| Total number litters | 5 | 1 | 2 | 15 | 1 |
| ALIMENTARY SYSTEM | | | | | |
| LIVER | (2) | (0) | (0) | (1) | (0) |
| NECROSIS; DIFFUSE | 1 [3.0] (1) | | | | |
| CARDIOVASCULAR SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| ENDOCRINE SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| GENERAL BODY SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| GENITAL SYSTEM | | | | | |
| PENIS | (2) | (0) | (0) | (1) | (0) |
| HYPOSPADIAS | | | | 1 (1) | |
| PREPUTIAL GLANDS | (3) | (1) | (0) | (0) | (1) |
| DUCT; UNILATERAL; ECTASIA | | 1 [2.0] (1) | | | |
| DUCT; ECTASIA | 3 [1.3] (3) | | | | 1 [2.0] (1) |
| DUCT; ECTASIA (TOTAL) | 3 [1.3] (3) | 1 [2.0] (1) | | | 1 [2.0] (1) |
| INFLAMMATION; CHRONIC ACTIVE | 1 [1.0] (1) | | | | |
| HEMATOLYMPHOID SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |

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Lab: RTI

F1 Male: Prenatal Male

Treatment Groups (ppm)

0 3000 10000 30000 0.05 ppm EE

INTEGUMENTARY SYSTEM

No Tissues/Organs Examined

MUSCULOSKELETAL SYSTEM

No Tissues/Organs Examined

NERVOUS SYSTEM

No Tissues/Organs Examined

RESPIRATORY SYSTEM

No Tissues/Organs Examined

SPECIAL SENSES SYSTEM

No Tissues/Organs Examined

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 Route: Dosing in Feed
 Species/Strain: Rat/Sprague-Dawley

PA18R: Non-Neoplastic Lesions with Mean Severity Grade and Litter Incidence
 Test Compound: 2-Hydroxy-4-methoxybenzophenone
 CAS Number: 131-57-7

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 Time Report Requested: 13:30:42
 Lab: RTI

F1 Male: Prenatal Male

| | Treatment Groups (ppm) | | | | |
|--|------------------------|------|-------------|---------------|-------------|
| | 0 | 3000 | 10000 | 30000 | 0.05 ppm EE |
| URINARY SYSTEM | | | | | |
| KIDNEYS | (2) | (0) | (2) | (13) | (0) |
| UNILATERAL; CHRONIC PROGRESSIVE NEPHROPATHY | | | | 5 [1.0] (5) | |
| CHRONIC PROGRESSIVE NEPHROPATHY | 2 [1.0] (2) | | | 6 [1.0] (6) | |
| CHRONIC PROGRESSIVE NEPHROPATHY (TOTAL) | 2 [1.0] (2) | | | 11 [1.0] (11) | |
| PELVIS; UNILATERAL; CONCRETION | | | | 2 [1.0] (2) | |
| PELVIS; CONCRETION | | | | 5 [1.0] (5) | |
| PELVIS; CONCRETION (TOTAL) | | | | 7 [1.0] (7) | |
| RENAL TUBULE; CONCRETION | | | | 4 [1.3] (4) | |
| RENAL TUBULE; CYST | | | | 1 (1) | |
| PELVIS; RIGHT; DILATION | | | 2 [1.5] (2) | | |
| RENAL TUBULE; UNILATERAL; DILATION | | | | 5 [1.2] (5) | |
| RENAL TUBULE; DILATION | | | | 7 [1.3] (7) | |
| RENAL TUBULE; DILATION (TOTAL) | | | | 12 [1.3] (12) | |
| PELVIS; HEMORRHAGE | | | | 1 [2.0] (1) | |
| UROTHELIUM; HYPERPLASIA; DIFFUSE | | | | 4 [1.3] (4) | |
| INFARCT | | | | 1 [1.0] (1) | |
| INTERSTITIUM; UNILATERAL; INFLAMMATION; CHRONIC ACTIVE | | | | 2 [1.0] (2) | |
| INTERSTITIUM; INFLAMMATION; CHRONIC ACTIVE | | | | 1 [2.0] (1) | |
| INTERSTITIUM; INFLAMMATION; CHRONIC ACTIVE (TOTAL) | | | | 3 [1.3] (3) | |
| PAPILLA; UNILATERAL; NECROSIS | | | | 1 [2.0] (1) | |
| PAPILLA; NECROSIS | | | | 3 [1.0] (3) | |
| PAPILLA; NECROSIS (TOTAL) | | | | 4 [1.3] (4) | |
| RENAL TUBULE; EPITHELIUM; REGENERATION; UNILATERAL | | | | 2 [1.5] (2) | |
| RENAL TUBULE; EPITHELIUM; REGENERATION | | | | 1 [1.0] (1) | |
| RENAL TUBULE; EPITHELIUM; REGENERATION (TOTAL) | | | | 3 [1.3] (3) | |
| UROTHELIUM; ULCER | | | | 2 [1.0] (2) | |
| URINARY BLADDER | (2) | (0) | (0) | (9) | (0) |

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Lab: RTI

F1 Female: Prenatal Female

Treatment Groups (ppm)

| | 0 | 3000 | 10000 | 30000 | 0.05 ppm EE |
|--|----|------|-------|-------|-------------|
| Disposition Summary | | | | | |
| Animals Initially In Study | 22 | 20 | 22 | 20 | 15 |
| Early Deaths | | | | | |
| Scheduled Deaths | | | | | |
| Scheduled sacrifice, terminal (GD 20 - 21, PND 109 - 123) | 22 | 20 | 22 | 20 | 15 |
| Animals Examined Microscopically | | 1 | | | |
| Total number litters | | 1 | | | |

ALIMENTARY SYSTEM

No Tissues/Organs Examined

CARDIOVASCULAR SYSTEM

No Tissues/Organs Examined

ENDOCRINE SYSTEM

No Tissues/Organs Examined

GENERAL BODY SYSTEM

No Tissues/Organs Examined

GENITAL SYSTEM

| | | | | | |
|--------|-----|-----|-----|-----|-----|
| UTERUS | (0) | (1) | (0) | (0) | (0) |
|--------|-----|-----|-----|-----|-----|

HEMATOLYMPHOID SYSTEM

No Tissues/Organs Examined

INTEGUMENTARY SYSTEM

No Tissues/Organs Examined

MUSCULOSKELETAL SYSTEM

No Tissues/Organs Examined

NERVOUS SYSTEM

No Tissues/Organs Examined

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CAS Number: 131-57-7

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Lab: RTI

F1 Female: Prenatal Female

Treatment Groups (ppm)

0 3000 10000 30000 0.05 ppm EE

RESPIRATORY SYSTEM

No Tissues/Organs Examined

SPECIAL SENSES SYSTEM

No Tissues/Organs Examined

URINARY SYSTEM

No Tissues/Organs Examined

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 Species/Strain: Rat/Sprague-Dawley

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 CAS Number: 131-57-7

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 Lab: RTI

F1 Male: Fertility Male

Treatment Groups (ppm)

| | 0 | 3000 | 10000 | 30000 | 0.05 ppm EE |
|---|-------------|--------------|-------------|-------------|-------------|
| Disposition Summary | | | | | |
| Animals Initially In Study | 41 | 40 | 40 | 40 | 30 |
| Early Deaths | | | | | |
| Scheduled Deaths | | | | | |
| Scheduled sacrifice, terminal (PND 153 - 155) | 41 | 40 | 40 | 40 | 30 |
| Animals Examined Microscopically | 41 | 40 | 40 | 40 | 30 |
| Total number litters | 22 | 20 | 21 | 20 | 15 |
| ALIMENTARY SYSTEM | | | | | |
| LIVER | (41) | (40) | (40) | (40) | (2) |
| HEPATODIAPHRAGMATIC NODULE | | | 1 (1) | 1 (1) | 1 (1) |
| INFLAMMATION; FOCAL | 3 [1.0] (3) | 10 [1.0] (9) | 8 [1.0] (8) | 3 [1.0] (3) | |
| HEPATOCYTE; NECROSIS; FOCAL | 1 [1.0] (1) | | | | |
| MESENTERY | (0) | (0) | (0) | (1) | (0) |
| FAT; NECROSIS | | | | 1 (1) | |
| CARDIOVASCULAR SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| ENDOCRINE SYSTEM | | | | | |
| ADRENAL GLANDS | (41) | (0) | (0) | (40) | (0) |
| CORTEX; VACUOLATION; DIFFUSE | | | | 3 [1.3] (3) | |
| PITUITARY GLAND | (41) | (0) | (0) | (40) | (0) |
| RATHKES CLEFT; CYST; MULTILOCULAR | 1 (1) | | | | |
| THYROID GLANDS | (41) | (0) | (0) | (40) | (30) |
| FOLLICULAR CELL; HYPERTROPHY; DIFFUSE | 1 [1.0] (1) | | | | |
| GENERAL BODY SYSTEM | | | | | |
| FAT | (0) | (0) | (0) | (0) | (1) |
| INFLAMMATION; CHRONIC ACTIVE | | | | | 1 [2.0] (1) |
| NECROSIS | | | | | 1 [2.0] (1) |

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 Lab: RTI

F1 Male: Fertility Male

| | Treatment Groups (ppm) | | | | |
|---|------------------------|-------------|-------------|---------------|-------------|
| | 0 | 3000 | 10000 | 30000 | 0.05 ppm EE |
| GENITAL SYSTEM | | | | | |
| COAGULATING GLANDS | (41) | (0) | (0) | (40) | (0) |
| COWPERS GLANDS | (41) | (0) | (0) | (40) | (0) |
| DORSAL PROSTATE | (41) | (0) | (0) | (40) | (27) |
| EPIDIDYMIDES | (41) | (0) | (1) | (40) | (30) |
| LUMEN; GERM CELL; EXFOLIATED; UNILATERAL | | | | 1 [1.0] (1) | |
| LUMEN; GERM CELL; EXFOLIATED | | | 1 [2.0] (1) | | |
| LUMEN; GERM CELL; EXFOLIATED (TOTAL) | | | 1 [2.0] (1) | 1 [1.0] (1) | |
| LUMEN; UNILATERAL; HYOSPERMIA | | | | 1 [2.0] (1) | |
| LUMEN; HYOSPERMIA | | | 1 [2.0] (1) | | |
| LUMEN; HYOSPERMIA (TOTAL) | | | 1 [2.0] (1) | 1 [2.0] (1) | |
| LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE | (41) | (0) | (0) | (40) | (0) |
| PREPUTIAL GLANDS | (41) | (5) | (4) | (40) | (5) |
| DUCT; ECTASIA | 23 [1.8] (18) | 4 [2.0] (3) | 4 [1.5] (4) | 32 [1.3] (19) | 5 [1.6] (4) |
| DUCT; FOREIGN MATERIAL | | | | | 1 (1) |
| INFLAMMATION; CHRONIC ACTIVE | 12 [1.5] (9) | 3 [1.7] (2) | 3 [1.3] (3) | 18 [1.3] (14) | 1 [2.0] (1) |
| PROSTATE | (0) | (0) | (0) | (0) | (3) |
| INFILTRATION CELLULAR; MONONUCLEAR CELL | | | | | 3 [1.0] (3) |
| SEMINAL VESICLES | (41) | (0) | (0) | (40) | (0) |
| TESTES | (41) | (0) | (1) | (40) | (30) |
| GERMINAL EPITHELIUM; UNILATERAL; ATROPHY | 2 [1.5] (2) | | | 1 [2.0] (1) | |
| GERM CELL; UNILATERAL; DEGENERATION | | | | 1 [2.0] (1) | |
| GERM CELL; DEGENERATION | 2 [1.0] (2) | | 1 [2.0] (1) | | |
| GERM CELL; DEGENERATION (TOTAL) | 2 [1.0] (2) | | 1 [2.0] (1) | 1 [2.0] (1) | |
| VENTRAL PROSTATE | (41) | (0) | (0) | (40) | (27) |
| INTERSTITIUM; LYMPHOCYTE; INFILTRATION CELLULAR | 8 [1.3] (6) | | | 6 [1.5] (5) | |

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F1 Male: Fertility Male

| | Treatment Groups (ppm) | | | | |
|--|------------------------|-------------|-------------|-------------|-------------|
| | 0 | 3000 | 10000 | 30000 | 0.05 ppm EE |
| HEMATOLYMPHOID SYSTEM | | | | | |
| SPLEEN | (2) | (1) | (0) | (0) | (0) |
| CONGESTION | | 1 [2.0] (1) | | | |
| INTEGUMENTARY SYSTEM | | | | | |
| MAMMARY GLANDS | (1) | (0) | (0) | (0) | (0) |
| SKIN | (0) | (0) | (1) | (1) | (0) |
| HAIR FOLLICLE; ATROPHY; FOCAL | | | | 1 [1.0] (1) | |
| EPIDERMIS; HYPERKERATOSIS; FOCAL | | | | 1 [1.0] (1) | |
| EPIDERMIS; HYPERPLASIA; FOCAL | | | | 1 [1.0] (1) | |
| DERMIS; INFLAMMATION; CHRONIC ACTIVE | | | 1 [2.0] (1) | | |
| DERMIS; INFLAMMATION; CHRONIC ACTIVE (TOTAL) | | | 1 [2.0] (1) | 1 [1.0] (1) | |
| DERMIS; INFLAMMATION; CHRONIC ACTIVE, FOCAL | | | | 1 [1.0] (1) | |
| EPIDERMIS; ULCERATION; FOCAL | | | 1 [2.0] (1) | | |
| MUSCULOSKELETAL SYSTEM | | | | | |
| BONE | (2) | (0) | (1) | (0) | (0) |
| DEFORMITY | | | 1 [3.0] (1) | | |
| NERVOUS SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| RESPIRATORY SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| SPECIAL SENSES SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |

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F1 Male: Fertility Male

| | Treatment Groups (ppm) | | | | |
|--|------------------------|---------------|---------------|---------------|-------------|
| | 0 | 3000 | 10000 | 30000 | 0.05 ppm EE |
| URINARY SYSTEM | | | | | |
| KIDNEYS | (41) | (40) | (40) | (40) | (0) |
| CHRONIC PROGRESSIVE NEPHROPATHY | 40 [1.2] (22) | 40 [1.3] (20) | 39 [1.3] (21) | 39 [1.2] (20) | |
| PELVIS; CONCRETION | | | | 17 [1.5] (13) | |
| RENAL TUBULE; CONCRETION | | | | 35 [1.4] (19) | |
| UROTHELIUM; CONCRETION | | | | 1 [1.0] (1) | |
| RENAL TUBULE; CYST | | | 1 (1) | | |
| PELVIS; RIGHT; DILATION | 3 [1.3] (3) | | 2 [1.5] (2) | 5 [1.0] (5) | |
| RENAL TUBULE; DILATION | | | | 37 [1.5] (20) | |
| UROTHELIUM; HYPERPLASIA; DIFFUSE | | | | 12 [1.3] (10) | |
| UROTHELIUM; HYPERPLASIA; FOCAL | | 1 [1.0] (1) | | 6 [1.2] (6) | |
| UROTHELIUM; HYPERPLASIA (TOTAL) | | 1 [1.0] (1) | | 18 [1.3] (15) | |
| INFARCT | 1 [2.0] (1) | | | | |
| INTERSTITIUM; INFLAMMATION; CHRONIC ACTIVE | | | | 22 [1.7] (14) | |
| MEDULLA; INFLAMMATION; GRANULOMATOUS | 1 [1.0] (1) | | | | |
| PAPILLA; NECROSIS | | | | 10 [1.3] (10) | |
| UROTHELIUM; NECROSIS | | | | 1 [1.0] (1) | |
| NEPHROBLASTEMATOSIS; FOCAL | 1 [1.0] (1) | | | | |
| RENAL TUBULE; EPITHELIUM; REGENERATION | | | | 33 [1.2] (17) | |
| UROTHELIUM; ULCER | | | | 12 [1.0] (9) | |
| URINARY BLADDER | (2) | (0) | (0) | (17) | (0) |
| CONCRETION | | | | 11 [2.0] (8) | |
| UROTHELIUM; EROSION; FOCAL | | | | 2 [1.5] (2) | |
| UROTHELIUM; HYPERPLASIA; DIFFUSE | | | | 1 [3.0] (1) | |
| SUBMUCOSA; INFLAMMATION; CHRONIC ACTIVE | | | | 1 [1.0] (1) | |

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F1 Female: Fertility Female

Treatment Groups (ppm)

| | 0 | 3000 | 10000 | 30000 | 0.05 ppm EE |
|---|-------------|-------|-------------|-------------|-------------|
| Disposition Summary | | | | | |
| Animals Initially In Study | 41 | 40 | 40 | 40 | 30 |
| Early Deaths | | | | | |
| Scheduled Deaths | | | | | |
| Scheduled sacrifice, terminal (GD 24, LD 28, PND 127 - 143) | 41 | 40 | 40 | 40 | 30 |
| Animals Examined Microscopically | 35 | 37 | 33 | 32 | 28 |
| Total number litters | 22 | 20 | 20 | 20 | 15 |
| ALIMENTARY SYSTEM | | | | | |
| LIVER | (35) | (2) | (1) | (32) | (0) |
| HEPATODIAPHRAGMATIC NODULE | | 2 (2) | 1 (1) | 4 (3) | |
| INFLAMMATION; FOCAL | | | | 2 [1.0] (2) | |
| MESENTERY | (0) | (1) | (0) | (0) | (0) |
| FAT; NECROSIS | | 1 (1) | | | |
| PANCREAS | (2) | (0) | (0) | (1) | (0) |
| CARDIOVASCULAR SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| ENDOCRINE SYSTEM | | | | | |
| ADRENAL GLANDS | (35) | (0) | (1) | (32) | (0) |
| UNILATERAL; CONGESTION; DIFFUSE | | | 1 [2.0] (1) | | |
| CORTEX; HYPERTROPHY; FOCAL | 1 [3.0] (1) | | | | |
| CORTEX; VACUOLATION; DIFFUSE | | | | 2 [1.5] (2) | |
| PITUITARY GLAND | (35) | (0) | (0) | (32) | (0) |
| PARS DISTALIS; CYST | 1 [1.0] (1) | | | | |
| THYROID GLANDS | (35) | (0) | (0) | (32) | (28) |
| FOLLICULAR CELL; HYPERTROPHY; DIFFUSE | 1 [1.0] (1) | | | | |
| GENERAL BODY SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |

Study Number: MOG002B
 Test Type: MOG
 Route: Dosing in Feed
 Species/Strain: Rat/Sprague-Dawley

PA18R: Non-Neoplastic Lesions with Mean Severity Grade and Litter Incidence
 Test Compound: 2-Hydroxy-4-methoxybenzophenone
 CAS Number: 131-57-7

Date Report Requested: 12/13/2019
 Time Report Requested: 13:30:42
 Lab: RTI

F1 Female: Fertility Female

| | Treatment Groups (ppm) | | | | |
|---|------------------------|-------------|-------------|-------------|-------------|
| | 0 | 3000 | 10000 | 30000 | 0.05 ppm EE |
| GENITAL SYSTEM | | | | | |
| CERVIX | (33) | (0) | (0) | (31) | (0) |
| CLITORAL GLANDS | (3) | (1) | (1) | (0) | (1) |
| DUCT; UNILATERAL; ECTASIA | 1 [2.0] (1) | 1 [2.0] (1) | 1 [2.0] (1) | | 1 [3.0] (1) |
| DUCT; ECTASIA | 2 [2.0] (2) | | | | |
| DUCT; ECTASIA (TOTAL) | 3 [2.0] (3) | 1 [2.0] (1) | 1 [2.0] (1) | | 1 [3.0] (1) |
| INFLAMMATION, CHRONIC; ACTIVE | 1 [1.0] (1) | | | | |
| OVARIES | (35) | (1) | (0) | (32) | (28) |
| CORPUS LUTEUM; CYST | 3 (3) | | | 2 (2) | 1 (1) |
| FOLLICLE; CYST | 3 (3) | | | | |
| PERIOVARIAN; FAT; NECROSIS | | 1 [1.0] (1) | | | |
| UTERUS | (35) | (0) | (0) | (32) | (0) |
| MUCOSA; DECIDUAL ALTERATION; FOCAL | 1 [3.0] (1) | | | | |
| ENDOMETRIUM; HYPERPLASIA; CYSTIC | 2 [1.0] (2) | | | | |
| VAGINA | (33) | (0) | (0) | (32) | (0) |
| EPITHELIUM; CYST | 1 (1) | | | 1 (1) | |
| HEMATOLYMPHOID SYSTEM | | | | | |
| LYMPH NODE, MANDIBULAR | (0) | (0) | (0) | (1) | (0) |
| CONGESTION | | | | 1 [2.0] (1) | |
| LYMPHOCYTE; DEPLETION | | | | 1 [3.0] (1) | |
| SPLEEN | (2) | (0) | (0) | (0) | (0) |
| RED PULP; PIGMENTED MACROPHAGE; INCREASED | 1 [2.0] (1) | | | | |
| INTEGUMENTARY SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |

Study Number: MOG002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA18R: Non-Neoplastic Lesions with Mean Severity Grade and Litter Incidence
Test Compound: 2-Hydroxy-4-methoxybenzophenone
CAS Number: 131-57-7

Date Report Requested: 12/13/2019
Time Report Requested: 13:30:42
Lab: RTI

F1 Female: Fertility Female

Treatment Groups (ppm)

0 3000 10000 30000 0.05 ppm EE

NERVOUS SYSTEM

No Tissues/Organs Examined

RESPIRATORY SYSTEM

No Tissues/Organs Examined

SPECIAL SENSES SYSTEM

No Tissues/Organs Examined

Study Number: MOG002B

Test Type: MOG

Route: Dosing in Feed

Species/Strain: Rat/Sprague-Dawley

PA18R: Non-Neoplastic Lesions with Mean Severity Grade and Litter Incidence

Test Compound: 2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 12/13/2019

Time Report Requested: 13:30:42

Lab: RTI

F1 Female: Fertility Female

Treatment Groups (ppm)

| | 0 | 3000 | 10000 | 30000 | 0.05 ppm EE |
|--|---------------|---------------|---------------|---------------|-------------|
| URINARY SYSTEM | | | | | |
| KIDNEYS | (35) | (37) | (33) | (32) | (0) |
| CHRONIC PROGRESSIVE NEPHROPATHY | 18 [1.1] (14) | 35 [1.1] (19) | 29 [1.0] (19) | 22 [1.0] (17) | |
| PELVIS; CONCRETION | | | | 9 [1.0] (5) | |
| RENAL TUBULE; CONCRETION | | | | 13 [1.4] (12) | |
| RENAL TUBULE; CYST | | | 3 (3) | 1 (1) | |
| RENAL TUBULE; EPITHELIUM; DEGENERATION | | | | 21 [1.1] (14) | |
| PELVIS; LEFT; DILATION | | | | 1 [4.0] (1) | |
| PELVIS; RIGHT; DILATION | | 1 [3.0] (1) | | 4 [1.5] (4) | |
| PELVIS; DILATION (TOTAL) | | 1 [3.0] (1) | | 5 [2.0] (5) | |
| RENAL TUBULE; DILATION | | | | 28 [1.4] (19) | |
| CAPSULE; FIBROSIS | | | | 1 (1) | |
| UROTHELIUM; HYPERPLASIA; DIFFUSE | | | | 15 [1.3] (12) | |
| INTERSTITIUM; INFLAMMATION; CHRONIC ACTIVE | | | | 8 [1.4] (8) | |
| UROTHELIUM; METAPLASIA; SQUAMOUS | | | | 1 [3.0] (1) | |
| MINERALIZATION | 9 [1.0] (8) | 28 [1.0] (17) | 24 [1.0] (18) | 10 [1.2] (8) | |
| PAPILLA; NECROSIS | | | | 4 [1.0] (3) | |
| NEPHROBLASTEMATOSIS; FOCAL | | 2 [2.0] (2) | | | |
| RENAL TUBULE; EPITHELIUM; REGENERATION | | | 3 [1.0] (3) | 13 [1.5] (12) | |
| UROTHELIUM; ULCER | | | | 6 [1.0] (6) | |
| URETERS | (1) | (0) | (0) | (1) | (0) |
| UROTHELIUM; HYPERPLASIA; DIFFUSE | | | | 1 [3.0] (1) | |
| URINARY BLADDER | (0) | (0) | (0) | (1) | (0) |
| CONCRETION | | | | 1 [1.0] (1) | |
| LUMEN; DILATION | | | | 1 [2.0] (1) | |
| UROTHELIUM; HYPERPLASIA; FOCAL | | | | 1 [3.0] (1) | |

Study Number: MOG002B
 Test Type: MOG
 Route: Dosing in Feed
 Species/Strain: Rat/Sprague-Dawley

PA18R: Non-Neoplastic Lesions with Mean Severity Grade and Litter Incidence
 Test Compound: 2-Hydroxy-4-methoxybenzophenone
 CAS Number: 131-57-7

Date Report Requested: 12/13/2019
 Time Report Requested: 13:30:42
 Lab: RTI

| | F2 Male | | | | |
|--|------------------------|-------------|-------|-------|-------------|
| | Treatment Groups (ppm) | | | | |
| | 0 | 3000 | 10000 | 30000 | 0.05 ppm EE |
| Disposition Summary | | | | | |
| Animals Initially In Study | 91 | 110 | 101 | 88 | 87 |
| Early Deaths | | | | | |
| Scheduled Deaths | | | | | |
| Scheduled sacrifice, terminal (PND 28) | 91 | 110 | 101 | 88 | 87 |
| Animals Examined Microscopically | 6 | 5 | 6 | 6 | 4 |
| Total number litters | 3 | 4 | 6 | 6 | 4 |
| ALIMENTARY SYSTEM | | | | | |
| LIVER | (0) | (1) | (0) | (0) | (0) |
| CONGESTION; DIFFUSE | | 1 [2.0] (1) | | | |
| CARDIOVASCULAR SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| ENDOCRINE SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| GENERAL BODY SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| GENITAL SYSTEM | | | | | |
| TESTES | (2) | (4) | (3) | (3) | (2) |
| SEMIFEROUS TUBULE; BILATERAL; DEGENERATION | | | | | 1 [2.0] (1) |
| SEMIFEROUS TUBULE; LEFT; DEGENERATION | | 3 [1.3] (3) | | | |
| SEMIFEROUS TUBULE; RIGHT; DEGENERATION | | | | | 1 [2.0] (1) |
| SEMIFEROUS TUBULE; DEGENERATION (TOTAL) | | 3 [1.3] (3) | | | 2 [2.0] (2) |
| BILATERAL; RETENTION | | 1 (1) | | 1 (1) | |
| LEFT; RETENTION | | | 2 (2) | | |
| RIGHT; RETENTION | | | 1 (1) | 1 (1) | |
| RETENTION (TOTAL) | | 1 (1) | 3 (3) | 2 (2) | |

Study Number: MOG002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA18R: Non-Neoplastic Lesions with Mean Severity Grade and Litter Incidence
Test Compound: 2-Hydroxy-4-methoxybenzophenone
CAS Number: 131-57-7

Date Report Requested: 12/13/2019
Time Report Requested: 13:30:42
Lab: RTI

| F2 Male | | | | | |
|--------------------------------|------------------------|------|-------|-------|-------------|
| | Treatment Groups (ppm) | | | | |
| | 0 | 3000 | 10000 | 30000 | 0.05 ppm EE |
| HEMATOLYMPHOID SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| INTEGUMENTARY SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | |
| DIAPHRAGM | (0) | (0) | (0) | (3) | (1) |
| LIMB | (3) | (0) | (0) | (0) | (0) |
| DEFORMITY | 1 [3.0] (1) | | | | |
| NERVOUS SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| RESPIRATORY SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| SPECIAL SENSES SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| URINARY SYSTEM | | | | | |
| KIDNEYS | (3) | (0) | (3) | (0) | (1) |
| LEFT; CONGESTION; DIFFUSE | 1 [1.0] (1) | | | | |
| PELVIS; RIGHT; DILATION | 2 [2.5] (2) | | | | |
| PAPILLA; MINERALIZATION; FOCAL | 1 [3.0] (1) | | | | |

Study Number: MOG002B
 Test Type: MOG
 Route: Dosing in Feed
 Species/Strain: Rat/Sprague-Dawley

PA18R: Non-Neoplastic Lesions with Mean Severity Grade and Litter Incidence
 Test Compound: 2-Hydroxy-4-methoxybenzophenone
 CAS Number: 131-57-7

Date Report Requested: 12/13/2019
 Time Report Requested: 13:30:42
 Lab: RTI

| F2 Female | | | | | |
|--|------------------------|------|-------|-------|-------------|
| | Treatment Groups (ppm) | | | | |
| | 0 | 3000 | 10000 | 30000 | 0.05 ppm EE |
| Disposition Summary | | | | | |
| Animals Initially In Study | 94 | 95 | 85 | 86 | 91 |
| Early Deaths | | | | | |
| Scheduled Deaths | | | | | |
| Scheduled sacrifice, terminal (PND 28) | 94 | 95 | 85 | 86 | 91 |
| Animals Examined Microscopically | 4 | 2 | | 8 | 2 |
| Total number litters | 2 | 2 | | 5 | 2 |
| ALIMENTARY SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| ENDOCRINE SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| GENERAL BODY SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| GENITAL SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| HEMATOLYMPHOID SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| INTEGUMENTARY SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | |
| LIMB | (3) | (0) | (0) | (0) | (1) |
| DEFORMITY | 1 [3.0] (1) | | | | 1 [3.0] (1) |
| NERVOUS SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |

Study Number: MOG002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA18R: Non-Neoplastic Lesions with Mean Severity Grade and Litter Incidence
Test Compound: 2-Hydroxy-4-methoxybenzophenone
CAS Number: 131-57-7

Date Report Requested: 12/13/2019
Time Report Requested: 13:30:42
Lab: RTI

| F2 Female | | | | | |
|--|------------------------|------|-------|-------------|-------------|
| | Treatment Groups (ppm) | | | | |
| | 0 | 3000 | 10000 | 30000 | 0.05 ppm EE |
| RESPIRATORY SYSTEM | | | | | |
| No Tissues/Organs Examined | | | | | |
| SPECIAL SENSES SYSTEM | | | | | |
| EYES | (0) | (1) | (0) | (0) | (0) |
| URINARY SYSTEM | | | | | |
| KIDNEYS | (1) | (1) | (0) | (7) | (1) |
| PELVIS; LEFT; DILATION | | | | 3 [1.7] (2) | |
| PELVIS; RIGHT; DILATION | | | | 3 [1.7] (3) | |
| PELVIS; DILATION (TOTAL) | | | | 6 [1.7] (3) | |
| RENAL TUBULE; DILATION | | | | 4 [1.3] (3) | |
| URINARY BLADDER | (0) | (0) | (0) | (2) | (0) |
| CONCRETION | | | | 1 [2.0] (1) | |
| HEMORRHAGE | | | | 1 [2.0] (1) | |
| UROTHELIUM; INFLAMMATION; CHRONIC ACTIVE | | | | 1 [2.0] (1) | |
| UROTHELIUM; ULCERATION; FOCAL | | | | 1 [2.0] (1) | |

Study Number: MOG002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA18R: Non-Neoplastic Lesions with Mean Severity Grade and Litter Incidence
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CAS Number: 131-57-7

Date Report Requested: 12/13/2019
Time Report Requested: 13:30:42
Lab: RTI

LEGEND

Number of animals examined given for each tissue. If none of the animals examined have the specific lesion then there is a blank for that dose group for that specific lesion. Mean severity grade denoted by 1 - minimal, 2 - mild, 3 - moderate, 4 - marked.

Number of animals with observation reported with mean severity grade in square brackets. The number of litters is shown in parentheses to the right of the severity grade for the F1 and F2 animals.

Phase day range of terminal sacrifice shown in parentheses in disposition summary

SD – Study Day; GD – Gestation Day; LD – Lactation Day; PND – Postnatal Day, adults post-weaning

EE = Ethinyl estradiol

**** END OF REPORT ****