

Experiment Number: 99028-03
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:35:44

First Dose M/F: NA / NA

Lab: BAT

| | |
|-----------------------------|------------|
| C Number: | C99028 |
| Lock Date: | 09/03/2002 |
| Cage Range: | All |
| Date Range: | All |
| Reasons For Removal: | All |
| Removal Date Range: | All |
| Treatment Groups: | All |
| Study Gender: | Both |
| PWG Approval Date | NONE |

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First Dose M/F: NA / NA

Lab: BAT

| F 344/N Rat MALE | 0 MG/KG | 50 MG/KG | 100 MG/KG | 200 MG/KG | 400 MG/KG | 600 MG/KG |
|----------------------------------|---------|----------|-----------|-----------|-----------|-----------|
| Disposition Summary | | | | | | |
| Animals Initially In Study | 10 | 10 | 10 | 10 | 10 | 10 |
| Early Deaths | | | | | | |
| Natural Death | | | | | | 10 |
| Survivors | | | | | | |
| Terminal Sacrifice | 10 | 10 | 10 | 10 | 10 | |
| Animals Examined Microscopically | 10 | 10 | 10 | 10 | 10 | 10 |
| ALIMENTARY SYSTEM | | | | | | |
| Esophagus | (10) | (0) | (0) | (0) | (10) | (10) |
| Intestine Large, Cecum | (10) | (0) | (0) | (0) | (10) | (7) |
| Intestine Large, Colon | (10) | (0) | (0) | (0) | (10) | (9) |
| Intestine Large, Rectum | (10) | (0) | (0) | (0) | (10) | (9) |
| Intestine Small, Duodenum | (10) | (0) | (0) | (0) | (10) | (9) |
| Intestine Small, Ileum | (10) | (0) | (0) | (0) | (10) | (8) |
| Intestine Small, Jejunum | (10) | (0) | (0) | (0) | (10) | (7) |
| Liver | (10) | (2) | (1) | (2) | (10) | (10) |
| Pancreas | (10) | (0) | (0) | (0) | (10) | (10) |
| Salivary Glands | (10) | (0) | (0) | (0) | (10) | (10) |
| Stomach, Forestomach | (10) | (0) | (0) | (0) | (10) | (10) |
| Stomach, Glandular | (10) | (10) | (10) | (10) | (10) | (10) |
| CARDIOVASCULAR SYSTEM | | | | | | |
| Blood Vessel | (10) | (0) | (0) | (0) | (10) | (10) |
| Heart | (10) | (10) | (10) | (10) | (10) | (10) |
| ENDOCRINE SYSTEM | | | | | | |
| Adrenal Cortex | (10) | (0) | (0) | (0) | (10) | (10) |
| Adrenal Medulla | (10) | (0) | (0) | (0) | (10) | (10) |

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99028-03

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Test Type: 90-DAY

Test Compound: bis(2-Chloroethoxy)methane

Time Report Requested: 22:35:44

Route: SKIN APPLICATION

CAS Number: 111-91-1

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BAT

| F 344/N Rat MALE | 0 MG/KG | 50 MG/KG | 100 MG/KG | 200 MG/KG | 400 MG/KG | 600 MG/KG |
|------------------------|---------|----------|-----------|-----------|-----------|-----------|
| Islets, Pancreatic | (10) | (0) | (0) | (0) | (10) | (10) |
| Parathyroid Gland | (9) | (0) | (0) | (0) | (10) | (10) |
| Pituitary Gland | (10) | (0) | (0) | (0) | (10) | (10) |
| Thyroid Gland | (10) | (0) | (0) | (0) | (10) | (10) |
| GENERAL BODY SYSTEM | | | | | | |
| None | | | | | | |
| GENITAL SYSTEM | | | | | | |
| Epididymis | (10) | (0) | (0) | (0) | (10) | (10) |
| Preputial Gland | (10) | (0) | (0) | (0) | (10) | (10) |
| Prostate | (10) | (0) | (0) | (0) | (10) | (10) |
| Seminal Vesicle | (10) | (0) | (0) | (0) | (10) | (10) |
| Testes | (10) | (0) | (0) | (0) | (10) | (10) |
| HEMATOPOIETIC SYSTEM | | | | | | |
| Bone Marrow | (10) | (0) | (0) | (0) | (10) | (10) |
| Lymph Node | (1) | (0) | (0) | (0) | (0) | (0) |
| Lymph Node, Mesenteric | (10) | (10) | (10) | (10) | (10) | (10) |
| Spleen | (10) | (10) | (10) | (10) | (10) | (10) |
| Thymus | (10) | (10) | (10) | (10) | (10) | (10) |
| INTEGUMENTARY SYSTEM | | | | | | |
| Mammary Gland | (8) | (0) | (0) | (0) | (9) | (10) |
| Skin | (10) | (0) | (0) | (0) | (10) | (10) |
| MUSCULOSKELETAL SYSTEM | | | | | | |
| Bone | (10) | (0) | (0) | (0) | (10) | (10) |
| NERVOUS SYSTEM | | | | | | |
| Brain | (10) | (0) | (0) | (0) | (10) | (10) |

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:35:44

First Dose M/F: NA / NA

Lab: BAT

| F 344/N Rat MALE | 0 MG/KG | 50 MG/KG | 100 MG/KG | 200 MG/KG | 400 MG/KG | 600 MG/KG |
|-----------------------|---------|----------|-----------|-----------|-----------|-----------|
| RESPIRATORY SYSTEM | | | | | | |
| Lung | (10) | (0) | (0) | (0) | (10) | (10) |
| Nose | (10) | (10) | (10) | (10) | (10) | (9) |
| Trachea | (10) | (0) | (0) | (0) | (10) | (10) |
| SPECIAL SENSES SYSTEM | | | | | | |
| Eye | (10) | (0) | (0) | (0) | (10) | (10) |
| Harderian Gland | (10) | (10) | (10) | (10) | (10) | (10) |
| URINARY SYSTEM | | | | | | |
| Kidney | (10) | (10) | (10) | (10) | (10) | (10) |
| Urinary Bladder | (10) | (0) | (0) | (0) | (10) | (10) |

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99028-03
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/17/2014
Time Report Requested: 22:35:44
First Dose M/F: NA / NA
Lab: BAT

| F 344/N Rat MALE | 0 MG/KG | 50 MG/KG | 100 MG/KG | 200 MG/KG | 400 MG/KG | 600 MG/KG |
|--------------------------------------------------------------------------|----------------|-----------------|------------------|------------------|------------------|------------------|
| Tumor Summary for MALE | | | | | | |
| Total Animals with Primary Neoplasms (b) | | | | | | |
| Total Primary Neoplasms | | | | | | |
| Total Animals with Benign Neoplasms | | | | | | |
| Total Benign Neoplasms | | | | | | |
| Total Animals with Malignant Neoplasms | | | | | | |
| Total Malignant Neoplasms | | | | | | |
| Total Animals with Metastatic Neoplasms | | | | | | |
| Total Metastatic Neoplasms | | | | | | |
| Total Animals with Malignant Neoplasms Uncertain Primary Site | | | | | | |
| Total Animals with Neoplasms Uncertain - Benign or Malignant | | | | | | |
| Total Uncertain Neoplasms | | | | | | |

END OF MALE DATA

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99028-03

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: bis(2-Chloroethoxy)methane

Time Report Requested: 22:35:44

Route: SKIN APPLICATION

CAS Number: 111-91-1

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BAT

| F 344/N Rat FEMALE | 0 MG/KG | 50 MG/KG | 100 MG/KG | 200 MG/KG | 400 MG/KG | 600 MG/KG |
|----------------------------------|---------|----------|-----------|-----------|-----------|-----------|
| Disposition Summary | | | | | | |
| Animals Initially In Study | 10 | 10 | 10 | 10 | 10 | 10 |
| Early Deaths | | | | | | |
| Moribund Sacrifice | | | | | 1 | 4 |
| Natural Death | | | | | 1 | 6 |
| Survivors | | | | | | |
| Terminal Sacrifice | 10 | 10 | 10 | 10 | 8 | |
| Animals Examined Microscopically | 10 | 10 | 10 | 10 | 10 | 10 |
| ALIMENTARY SYSTEM | | | | | | |
| Esophagus | (10) | (0) | (0) | (0) | (10) | (10) |
| Intestine Large, Cecum | (10) | (0) | (0) | (0) | (9) | (8) |
| Intestine Large, Colon | (10) | (0) | (0) | (0) | (9) | (8) |
| Intestine Large, Rectum | (10) | (0) | (0) | (0) | (9) | (7) |
| Intestine Small, Duodenum | (10) | (0) | (0) | (0) | (9) | (10) |
| Intestine Small, Ileum | (10) | (0) | (0) | (0) | (9) | (9) |
| Intestine Small, Jejunum | (10) | (0) | (0) | (0) | (9) | (7) |
| Liver | (10) | (3) | (0) | (0) | (10) | (10) |
| Pancreas | (10) | (0) | (0) | (0) | (10) | (10) |
| Salivary Glands | (10) | (0) | (0) | (0) | (10) | (10) |
| Stomach, Forestomach | (10) | (0) | (0) | (0) | (10) | (10) |
| Stomach, Glandular | (10) | (10) | (10) | (10) | (10) | (10) |
| CARDIOVASCULAR SYSTEM | | | | | | |
| Blood Vessel | (10) | (0) | (0) | (0) | (10) | (10) |
| Heart | (10) | (10) | (10) | (10) | (10) | (10) |
| ENDOCRINE SYSTEM | | | | | | |
| Adrenal Cortex | (10) | (0) | (0) | (0) | (10) | (10) |

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:35:45

First Dose M/F: NA / NA

Lab: BAT

| F 344/N Rat FEMALE | 0 MG/KG | 50 MG/KG | 100 MG/KG | 200 MG/KG | 400 MG/KG | 600 MG/KG |
|------------------------|---------|----------|-----------|-----------|-----------|-----------|
| Adrenal Medulla | (10) | (0) | (0) | (0) | (10) | (10) |
| Islets, Pancreatic | (10) | (0) | (0) | (0) | (10) | (10) |
| Parathyroid Gland | (10) | (0) | (0) | (0) | (10) | (8) |
| Pituitary Gland | (10) | (0) | (0) | (0) | (10) | (10) |
| Thyroid Gland | (10) | (0) | (0) | (0) | (10) | (10) |
| GENERAL BODY SYSTEM | | | | | | |
| None | | | | | | |
| GENITAL SYSTEM | | | | | | |
| Clitoral Gland | (10) | (0) | (0) | (0) | (10) | (10) |
| Ovary | (10) | (1) | (0) | (0) | (10) | (10) |
| Uterus | (10) | (10) | (10) | (10) | (10) | (10) |
| HEMATOPOIETIC SYSTEM | | | | | | |
| Bone Marrow | (10) | (0) | (0) | (0) | (10) | (10) |
| Lymph Node, Mesenteric | (10) | (10) | (10) | (9) | (10) | (10) |
| Spleen | (10) | (10) | (10) | (10) | (10) | (10) |
| Thymus | (10) | (10) | (10) | (10) | (10) | (10) |
| INTEGUMENTARY SYSTEM | | | | | | |
| Mammary Gland | (10) | (0) | (0) | (0) | (10) | (10) |
| Skin | (10) | (0) | (0) | (0) | (10) | (10) |
| MUSCULOSKELETAL SYSTEM | | | | | | |
| Bone | (10) | (0) | (0) | (0) | (10) | (10) |
| NERVOUS SYSTEM | | | | | | |
| Brain | (10) | (0) | (0) | (0) | (10) | (10) |
| RESPIRATORY SYSTEM | | | | | | |
| Lung | (10) | (0) | (0) | (0) | (10) | (10) |

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

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First Dose M/F: NA / NA

Lab: BAT

| F 344/N Rat FEMALE | 0 MG/KG | 50 MG/KG | 100 MG/KG | 200 MG/KG | 400 MG/KG | 600 MG/KG |
|------------------------------|----------------|-----------------|------------------|------------------|------------------|------------------|
| Nose | (10) | (10) | (10) | (10) | (10) | (9) |
| Trachea | (10) | (0) | (0) | (0) | (10) | (10) |
| SPECIAL SENSES SYSTEM | | | | | | |
| Eye | (10) | (0) | (0) | (0) | (10) | (10) |
| Harderian Gland | (10) | (10) | (10) | (10) | (10) | (10) |
| URINARY SYSTEM | | | | | | |
| Kidney | (10) | (10) | (10) | (10) | (10) | (10) |
| Urinary Bladder | (10) | (0) | (0) | (0) | (10) | (10) |

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

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Lab: BAT

| F 344/N Rat FEMALE | 0 MG/KG | 50 MG/KG | 100 MG/KG | 200 MG/KG | 400 MG/KG | 600 MG/KG |
|--------------------------------------------------------------------------|----------------|-----------------|------------------|------------------|------------------|------------------|
| Tumor Summary for FEMALE | | | | | | |
| Total Animals with Primary Neoplasms (b) | | | | | | |
| Total Primary Neoplasms | | | | | | |
| Total Animals with Benign Neoplasms | | | | | | |
| Total Benign Neoplasms | | | | | | |
| Total Animals with Malignant Neoplasms | | | | | | |
| Total Malignant Neoplasms | | | | | | |
| Total Animals with Metastatic Neoplasms | | | | | | |
| Total Metastatic Neoplasms | | | | | | |
| Total Animals with Malignant Neoplasms Uncertain Primary Site | | | | | | |
| Total Animals with Neoplasms Uncertain - Benign or Malignant | | | | | | |
| Total Uncertain Neoplasms | | | | | | |

**** END OF REPORT ****

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically