

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/17/2014
Time Report Requested: 22:42:33
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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Date Report Requested: 10/17/2014

Time Report Requested: 22:42:33

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Hepatodiaphragmatic Nodule			X			X					2
Inflammation, Chronic	1					1					2 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Acinus, Atrophy					1						1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	1	1	1	1	1	1	1	1	1	1	10 1.0
Mineralization		1									1 1.0

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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Lab: BAT

F 344/N Rat Male
0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	M	+	+	+	9
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node								+			1
Mediastinal, Congestion								1			1 1.0
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10

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Lab: BAT

F 344/N Rat Male
0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	*TOTALS
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
Integumentary System											
Mammary Gland	+	+	M	+	+	+	+	+	+	M	8
Skin	+	+	+	+	+	+	+	+	+	+	10
SOA Epidermis, Hyperplasia				1	1	1	1				4 1.0
Musculoskeletal System											
Bone	+	+	+	+	+	+	+	+	+	+	10
Nervous System											
Brain	+	+	+	+	+	+	+	+	+	+	10
Mineralization, Focal				2							1 2.0
Respiratory System											
Lung	+	+	+	+	+	+	+	+	+	+	10
Alveolar Epith, Hyperplasia, Focal				1							1 1.0
Inflammation, Chronic					1				1		2 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10
Special Senses System											
Eye	+	+	+	+	+	+	+	+	+	+	10

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 First Dose M/F: NA / NA
 Lab: BAT

F 344/N Rat Male
 0 MG/KG

	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	
	*TOTALS										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	
Hemorrhage	2										
Hyperplasia, Lymphoid	2										
Inflammation, Chronic	2										
Pigmentation, Porphyrin	2				1						
Urinary System											
Kidney	+	+	+	+	+	+	+	+	+	+	
Nephropathy	1	1		1	1	1	1				
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	

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Species/Strain: Rat/F 344/N

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Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:33

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
50 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Alimentary System

Liver											+	2
Hepatodiaphragmatic Nodule											X	2
Stomach, Glandular											+	10

Cardiovascular System

Heart											+	10
Cardiomyopathy											1	8
											1	1.3

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node, Mesenteric											+	10
Spleen											+	10
Thymus											+	10

Integumentary System

NONE

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Date Report Requested: 10/17/2014

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
50 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Nose

+ + + + + + + + + + 10

Special Senses System

Harderian Gland

+ + + + + + + + + + 10

Pigmentation, Porphyrin

2 1 1 2 4 1.5

Urinary System

Kidney

+ + + + + + + + + + 10

Nephropathy

1 1 1 1 1 1 1 1 8 1.0

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Species/Strain: Rat/F 344/N

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Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:33

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
100 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | *TOTALS | | | | | | | | | |

Alimentary System

| | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|---|----|
| Liver | | | | | | | | | | | + | | 1 | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | X | | 1 | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | 10 |

Cardiovascular System

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|---|----|-----|
| Heart | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | 10 | |
| Cardiomyopathy | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 | 1.0 |

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Lymph Node, Mesenteric | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Spleen | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | 1 | | | | | | | | | | 2 | 2 | 1.5 |
| Thymus | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | 10 | | |

Integumentary System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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Time Report Requested: 22:42:33

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
100 MG/KG

| | | | | | | | | | | |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | *TOTALS | | | | | | | | | |

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Nose

+ + + + + + + + + + 10

Special Senses System

Harderian Gland

+ + + + + + + + + + 10

Inflammation, Chronic

2 1 2.0

Pigmentation, Porphyrin

1 1 2 1 2 2 5 1.4

Urinary System

Kidney

+ + + + + + + + + + 10

Nephropathy

1 1 1 1 1 1 1 1 8 1.0

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
200 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | *TOTALS | | | | | | | | | |

Alimentary System

| | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|---|----|
| Liver | | | | | | | | | | | + | + | | | | | | | | | 2 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | X | X | | | | | | | | | 2 |
| Stomach, Glandular | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | 10 |

Cardiovascular System

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|---|----|-----|
| Heart | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | 10 | |
| Cardiomyopathy | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 | 1.0 |

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|---|----|
| Lymph Node, Mesenteric | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | 10 |
| Spleen | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | 10 |
| Thymus | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | 10 |

Integumentary System

NONE

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CAS Number: 111-91-1

Date Report Requested: 10/17/2014

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
200 MG/KG

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

*TOTALS

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Nose

+ + + + + + + + + + 10

Special Senses System

Harderian Gland

+ + + + + + + + + + 10

Pigmentation, Porphyrin

1 1 1.0

Urinary System

Kidney

+ + + + + + + + + + 10

Nephropathy

1 1 1 1 1 1 1 1 1 1 9 1.0

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1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:33

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
400 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | *TOTALS | | | | | | | | | |

Alimentary System

| | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver | + | + | + | + | + | + | + | + | + | + | 10 |
| Hepatodiaphragmatic Nodule | | X | | | | | | | | | 1 |
| Inflammation, Chronic | | | | | | 1 | | | | 1 | 2 1.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 10 |

Cardiovascular System

| | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | 10 |
| Heart | + | + | + | + | + | + | + | + | + | + | 10 |
| Cardiomyopathy | 1 | | | 1 | | | | | | | 2 1.0 |
| Infiltration Cellular, Mononuclear CI | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | 7 1.0 |
| Myocardium, Vacuolization Cytoplasmic | 2 | 2 | 1 | | 1 | | | 1 | 1 | | 6 1.3 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

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Experiment Number: 99028-03

Test Type: 90-DAY

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Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:34

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
400 MG/KG

| | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |

Endocrine System

| | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | 10 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | 10 |

General Body System

NONE

Genital System

| | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|----|
| Epididymis | + | + | + | + | + | + | + | + | + | + | 10 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Prostate | + | + | + | + | + | + | + | + | + | + | 10 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | 10 |
| Testes | + | + | + | + | + | + | + | + | + | + | 10 |

Hematopoietic System

| | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | 0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | 10 |
| Spleen | + | + | + | + | + | + | + | + | + | + | 10 |
| Thymus | + | + | + | + | + | + | + | + | + | + | 10 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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2) Mild 4) Marked

Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:34

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
400 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|----------------|-----|----|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 5 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |
| | | | | | | | | | | | *TOTALS | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | | | 10 |
| Integumentary System | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | M | + | + | | | 9 |
| Skin | + | + | + | + | + | + | + | + | + | + | | | 10 |
| SOA Epidermis, Hyperplasia | 1 | 1 | | | | 1 | | | 1 | | 4 | 1.0 | |
| Musculoskeletal System | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | | | 10 |
| Nervous System | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | | | 10 |
| Respiratory System | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | | | 10 |
| Inflammation, Chronic | | | | | 1 | 1 | | | | | 2 | 1.0 | |
| Nose | + | + | + | + | + | + | + | + | + | + | | | 10 |
| Trachea | + | + | + | + | + | + | + | + | + | + | | | 10 |
| Special Senses System | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | | | 10 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | | | 10 |
| Inflammation, Chronic | | | | 1 | | | | | | | 1 | 1.0 | |
| Pigmentation, Porphyrin | | 1 | 1 | | 1 | 1 | | 1 | | | 5 | 1.0 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

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2) Mild 4) Marked

Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:34

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
400 MG/KG

| | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |

Urinary System

| | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|-------|
| Kidney | + | + | + | + | + | + | + | + | + | + | 10 |
| Nephropathy | 1 | 1 | | 1 | 1 | | 1 | | 1 | 1 | 7 1.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | 10 |

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X ..Lesion present

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Lab: BAT

F 344/N Rat Male
600 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 0 | 0 | 5 | 4 | 5 | 6 | 0 | 0 | 4 |
| | 6 | 5 | 5 | 3 | 7 | 3 | 6 | 2 | 5 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | *TOTALS | | | | | | | | | |

Alimentary System

| | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | A | + | + | A | + | A | 7 |
| Intestine Large, Colon | + | + | + | + | + | + | + | A | + | + | 9 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | A | + | + | 9 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | A | + | + | 9 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | A | + | A | 8 |
| Intestine Small, Jejunum | + | A | + | + | + | + | A | A | + | + | 7 |
| Liver | + | + | + | + | + | + | + | + | + | + | 10 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Chronic | | | | | | | | | | 2 | 1 2.0 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 10 |

Cardiovascular System

| | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|--------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | 10 |
| Heart | + | + | + | + | + | + | + | + | + | + | 10 |
| Atrium, Thrombosis | | 4 | 4 | | | | | | 3 | | 3 3.7 |
| Cardiomyopathy | | | | | 1 | | | | | | 1 1.0 |
| Fibrosis | | | | | | | 1 | | | | 1 1.0 |
| Infiltration Cellular, Mononuclear CI | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 2 | 1 | 10 1.4 |
| Myocardium, Necrosis | | 2 | 3 | | | 2 | 1 | 1 | 1 | 2 | 7 1.7 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

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F 344/N Rat Male
600 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|----------------|-----|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 4 | 0 | 0 | 5 | 4 | 5 | 6 | 0 | 0 | 4 | | |
| | 6 | 5 | 5 | 3 | 7 | 3 | 6 | 2 | 5 | 0 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS | |
| Myocardium, Vacuolization Cytoplasmic | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 10 | 1.5 |

Endocrine System

| | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | 10 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | 10 |

General Body System

NONE

Genital System

| | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|----|-----|
| Epididymis | + | + | + | + | + | + | + | + | + | + | 10 | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | 10 | |
| Prostate | + | + | + | + | + | + | + | + | + | + | 10 | |
| Inflammation, Suppurative | | | 1 | | | | | | | | 1 | 1.0 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | 10 | |
| Testes | + | + | + | + | + | + | + | + | + | + | 10 | |

Hematopoietic System

| | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | 0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | 10 |

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X ..Lesion present

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Lab: BAT

F 344/N Rat Male
600 MG/KG

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

*TOTALS

| | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|----|-----|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | 10 | |
| Atrophy | | | | 2 | | | 1 | | 2 | | 3 | 1.7 |
| Congestion | | | | | 2 | | | | | | 1 | 2.0 |
| Necrosis, Lymphoid | 1 | 2 | 2 | | 2 | 1 | 1 | 2 | 2 | 2 | 9 | 1.7 |
| Spleen | + | + | + | + | + | + | + | + | + | + | 10 | |
| Atrophy | 2 | 4 | 4 | 3 | 2 | 2 | 2 | 3 | 4 | 2 | 10 | 2.8 |
| Necrosis, Lymphoid | | | | | | | 1 | | 1 | 1 | 3 | 1.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | 10 | |
| Atrophy | | | 3 | 4 | | | | | 4 | | 3 | 3.7 |
| Hemorrhage | | | | | | | 3 | | | | 1 | 3.0 |
| Necrosis | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 10 | 1.7 |
| Integumentary System | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | 10 | |
| Skin | + | + | + | + | + | + | + | + | + | + | 10 | |
| SOA Epidermis, Inflammation, Suppurative | | | 1 | | | | | | | 1 | 2 | 1.0 |
| Musculoskeletal System | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | 10 | |
| Nervous System | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | 10 | |
| Respiratory System | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | 10 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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BLANK ..Not examined microscopically

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2) Mild 4) Marked

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Species/Strain: Rat/F 344/N

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Test Compound: bis(2-Chloroethoxy)methane

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Date Report Requested: 10/17/2014

Time Report Requested: 22:42:34

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
600 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---------|-----|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 4 | 0 | 0 | 5 | 4 | 5 | 6 | 0 | 0 | 4 | | |
| | 6 | 5 | 5 | 3 | 7 | 3 | 6 | 2 | 5 | 0 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| Inflammation, Chronic | | | | | | 1 | | | | | 1 | 1.0 |
| Nose | + | + | + | + | + | + | + | A | + | + | 9 | |
| Olfactory Epi, Degeneration | 2 | 2 | 2 | 2 | | 1 | | | 2 | 2 | 7 | 1.9 |
| Trachea | + | + | + | + | + | + | + | + | + | + | 10 | |
| Special Senses System | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | 10 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | 10 | |
| Pigmentation, Porphyrin | | 3 | 3 | 2 | 2 | 3 | 2 | | 2 | 2 | 8 | 2.4 |
| Urinary System | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | 10 | |
| Nephropathy | | | | | | 1 | 1 | | | | 2 | 1.0 |
| Papilla, Renal Tubule, Mineralization | | 1 | | | 1 | | | | | | 2 | 1.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | 10 | |

END OF MALE DATA

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:34

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
0 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | *TOTALS | | | | | | | | | |

Alimentary System

| | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver | + | + | + | + | + | + | + | + | + | + | 10 |
| Hepatodiaphragmatic Nodule | | | | | | X | | | | | 1 |
| Inflammation, Chronic | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 8 1.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 10 |

Cardiovascular System

| | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|-------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | 10 |
| Heart | + | + | + | + | + | + | + | + | + | + | 10 |
| Cardiomyopathy | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 8 1.0 |

Endocrine System

| | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 10 |
|----------------|---|---|---|---|---|---|---|---|---|---|----|

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:34

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
0 MG/KG

| | DAY ON TEST | | | | | | | | | | |
|-----------------------------|-------------|---|---|---|---|---|---|---|---|---|----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | 10 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| General Body System | | | | | | | | | | | |
| NONE | | | | | | | | | | | |
| Genital System | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Chronic | | | | | | | 1 | | | | 1 1.0 |
| Ovary | + | + | + | + | + | + | + | + | + | + | 10 |
| Cyst | 1 | | | | | | 1 | | | | 2 1.0 |
| Uterus | + | + | + | + | + | + | + | + | + | + | 10 |
| Hematopoietic System | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | 0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | 10 |
| Spleen | + | + | + | + | + | + | + | + | + | + | 10 |
| Thymus | + | + | + | + | + | + | + | + | + | + | 10 |
| Integumentary System | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | 10 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:34

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
0 MG/KG

| | DAY ON TEST | | | | | | | | | | | | |
|-------------------------------|-------------|---|---|---|---|---|---|---|---|---|----------------|-----|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | 10 | | |
| SOA Epidermis, Hyperplasia | | | | 1 | 1 | 1 | | 1 | | | 4 | 1.0 | |
| Musculoskeletal System | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Nervous System | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Respiratory System | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Inflammation, Chronic | | | 1 | | | 1 | | | | | 2 | 1.0 | |
| Metaplasia, Osseous | | | | | | | | | 1 | | 1 | 1.0 | |
| Nose | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Special Senses System | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Urinary System | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Nephropathy | | | | | | 1 | | | | | 1 | 1.0 | |
| Papilla, Mineralization | | | | | | | | 1 | | | 1 | 1.0 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:34

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
0 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|----------------|---|----|---|---|-----|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | | | | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | | | | |
| | | | | | | | | | | | *TOTALS | | | | | |
| Papilla, Renal Tubule, Mineralization | | | | | | | | | | | 1 | 1 | 1 | 1 | 4 | 1.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | | | 10 | | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

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Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:34

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
50 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | *TOTALS | | | | | | | | | |

Alimentary System

| | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|----|-----|--|
| Liver | | | + | | + | | | | | + | 3 | | |
| Hepatodiaphragmatic Nodule | | | X | | X | | | | | X | 3 | | |
| Inflammation, Chronic | | | | | | | | | | 1 | 1 | 1.0 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 10 | | |

Cardiovascular System

| | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|----|-----|--|
| Heart | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Cardiomyopathy | | | | 1 | 1 | 1 | 1 | 1 | | 1 | 6 | 1.0 | |

Endocrine System

NONE

General Body System

NONE

Genital System

| | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|----|-----|--|
| Ovary | | | | | | + | | | | | 1 | | |
| Cyst | | | | | 1 | | | | | | 1 | 1.0 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | 10 | | |

Hematopoietic System

| | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|----|--|--|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | 10 | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:34

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
50 MG/KG

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

*TOTALS

| | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Thymus | + | + | + | + | + | + | + | + | + | + | 10 |
| Integumentary System | | | | | | | | | | | |
| NONE | | | | | | | | | | | |
| Musculoskeletal System | | | | | | | | | | | |
| NONE | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | |
| NONE | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | 10 |
| Olfactory Epi, Degeneration | | | | 1 | | | | | | | 1 1.0 |
| Olfactory Epi, Inflammation, Acute | | | | 1 | | | | | | | 1 1.0 |
| Special Senses System | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Chronic | 1 | | | | | | | | | | 1 1.0 |
| Pigmentation, Porphyrin | | 1 | 2 | | | | | 1 | | 1 | 4 1.3 |
| Urinary System | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | 10 |
| Nephropathy | | | 1 | | | | | | | | 1 1.0 |
| Papilla, Renal Tubule, Mineralization | 1 | | | 1 | | 1 | | 1 | 1 | 1 | 6 1.0 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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2) Mild 4) Marked

Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:34

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
100 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | *TOTALS | | | | | | | | | |

Alimentary System

Stomach, Glandular + + + + + + + + + + 10

Cardiovascular System

Heart + + + + + + + + + + 10

Cardiomyopathy 1 1 1 1 1 1 1 1 1 8 1.0

Endocrine System

NONE

General Body System

NONE

Genital System

Uterus + + + + + + + + + + 10

Hematopoietic System

Lymph Node, Mesenteric + + + + + + + + + + 10

Spleen + + + + + + + + + + 10

Thymus + + + + + + + + + + 10

Integumentary System

NONE

Musculoskeletal System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:35

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
100 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | *TOTALS | | | | | | | | | |

| | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| NONE | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | |
| NONE | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | 10 |
| Special Senses System | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Pigmentation, Porphyrin | | | | | 2 | | | | | 1 | 2 1.5 |
| Urinary System | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | 10 |
| Nephropathy | | 1 | | | | | | | | | 1 1.0 |
| Papilla, Renal Tubule, Mineralization | | 1 | 1 | 1 | | 1 | 1 | | | 1 | 6 1.0 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:35

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
200 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | *TOTALS | | | | | | | | | |

Alimentary System

Stomach, Glandular + + + + + + + + + + 10

Cardiovascular System

Heart + + + + + + + + + + 10

Cardiomyopathy 1 1 1 1 1 1 1 1 4 1.0

Infiltration Cellular, Mononuclear CI 1 1 1 1 1 1 1 7 1.0

Mineralization 1 1.0

Myocardium, Necrosis 1 1.0

Myocardium, Vacuolization Cytoplasmic 1 1 2 1.0

Endocrine System

NONE

General Body System

NONE

Genital System

Uterus + + + + + + + + + + 10

Hematopoietic System

Lymph Node, Mesenteric + + + + + + + + + + 9

Spleen + + + + + + + + + + 10

Thymus + + + + + + + + + + 10

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:35

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
200 MG/KG

| | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

| | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|----|
| Nose | + | + | + | + | + | + | + | + | + | + | 10 |
|------|---|---|---|---|---|---|---|---|---|---|----|

Special Senses System

| | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|----|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | 10 |
|-----------------|---|---|---|---|---|---|---|---|---|---|----|

Urinary System

| | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | 10 |
|--------|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | |
|-------------------------------|--|--|--|--|--|--|--|--|--|--|---|---|-----|
| Cortex, Inflammation, Chronic | | | | | | | | | | | 1 | 1 | 1.0 |
|-------------------------------|--|--|--|--|--|--|--|--|--|--|---|---|-----|

| | | | | | | | | | | | | |
|-------------|--|--|--|--|--|---|--|--|--|--|---|-----|
| Nephropathy | | | | | | 1 | | | | | 1 | 1.0 |
|-------------|--|--|--|--|--|---|--|--|--|--|---|-----|

| | | | | | | | | | | | | |
|-------------------------------|--|--|--|--|--|--|--|--|--|---|---|-----|
| Papilla, Degeneration, Mucoïd | | | | | | | | | | 2 | 1 | 2.0 |
|-------------------------------|--|--|--|--|--|--|--|--|--|---|---|-----|

| | | | | | | | | | | | | |
|---------------------------------------|--|--|---|---|--|---|--|--|--|---|---|-----|
| Papilla, Renal Tubule, Mineralization | | | 1 | 1 | | 1 | | | | 1 | 4 | 1.0 |
|---------------------------------------|--|--|---|---|--|---|--|--|--|---|---|-----|

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

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Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

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CAS Number: 111-91-1

Date Report Requested: 10/17/2014

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
400 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 7 | 9 | 9 | 9 | 9 | 9 | 7 | 9 | 9 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | *TOTALS | | | | | | | | | |

Alimentary System

| | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | A | + | + | 9 |
| Intestine Large, Colon | + | + | + | + | + | + | + | A | + | + | 9 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | A | + | + | 9 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | A | + | + | 9 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | A | + | + | 9 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | A | + | + | 9 |
| Liver | + | + | + | + | + | + | + | + | + | + | 10 |
| Hepatocyte, Periportal, Vacuolization
Cytoplasmic | | | 3 | | | | | | | | 1 3.0 |
| Hepatodiaphragmatic Nodule | | | X | | | | | | | | 1 |
| Inflammation, Chronic | | | | 1 | | 1 | 1 | 1 | | 1 | 5 1.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 10 |
| Epithelium, Mineralization | | | | | | 1 | | | | | 1 1.0 |

Cardiovascular System

| | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|-------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | 10 |
| Heart | + | + | + | + | + | + | + | + | + | + | 10 |
| Cardiomyopathy | | | | | | 1 | | 1 | | 1 | 3 1.0 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

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Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:35

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
400 MG/KG

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

*TOTALS

| | | | | | | | | | | | | |
|---------------------------------------|---|---|---|--|--|---|--|---|--|---|---|-----|
| Infiltration Cellular, Mononuclear Cl | 1 | 1 | 2 | | | 1 | | 1 | | 1 | 6 | 1.2 |
| Myocardium, Necrosis | | | 1 | | | | | | | | 1 | 1.0 |
| Myocardium, Vacuolization Cytoplasmic | 1 | 1 | | | | 2 | | 2 | | 1 | 5 | 1.4 |

Endocrine System

| | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 10 | |
| Hyperplasia, Focal | | | | | | | | | 3 | | 1 | 3.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | 10 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | 10 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | 10 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | 10 | |
| Rathkes Cleft, Cyst | | | | X | | | | | | | 1 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | 10 | |

General Body System

NONE

Genital System

| | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|----|--|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | 10 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | 10 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | 10 | |

Hematopoietic System

| | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|----|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | 10 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | 0 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

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Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:35

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
400 MG/KG

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

*TOTALS

| | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|-------|
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | 0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | 10 |
| Necrosis, Lymphoid | | | 2 | | | | | | 1 | | 2 1.5 |
| Spleen | + | + | + | + | + | + | + | + | + | + | 10 |
| Atrophy | | | 1 | | | | | | | | 1 1.0 |
| Necrosis, Lymphoid | | | | | | | | | 2 | | 1 2.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | 10 |
| Necrosis | | | 3 | | | | | | 2 | | 2 2.5 |
| Integumentary System | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Skin | + | + | + | + | + | + | + | + | + | + | 10 |
| SOA Epidermis, Hyperplasia | | | | | | | | 1 | | 1 | 2 1.0 |
| SOA Epidermis, Inflammation, Suppurative | | | | | | | | | 1 | 1 | 2 1.0 |
| Musculoskeletal System | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | 10 |
| Nervous System | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | 10 |
| Respiratory System | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | 10 |
| Nose | + | + | + | + | + | + | + | + | + | + | 10 |
| Olfactory Epi, Degeneration | | | 1 | 1 | | | | | 2 | | 3 1.3 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

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2) Mild 4) Marked

Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

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Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:35

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
400 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---------------------------------------|----------------|---|---|---|---|---|---|---|---|---|-------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 9 | 7 | 9 | 9 | 9 | 9 | 9 | 7 | 9 | 9 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | *TOTALS | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | 10 |
| Special Senses System | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | 10 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Pigmentation, Porphyrin | | | 2 | | | | | 1 | | | 2 1.5 |
| Urinary System | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | 10 |
| Papilla, Renal Tubule, Mineralization | 1 | | 1 | | | 1 | | 1 | | | 4 1.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | 10 |

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X ..Lesion present

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
600 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 3 |
| | 9 | 2 | 4 | 2 | 9 | 3 | 6 | 2 | 7 | 1 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | *TOTALS | | | | | | | | | |

Alimentary System

| | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | + | + | A | A | + | + | 8 |
| Intestine Large, Colon | + | + | + | + | + | + | A | A | + | + | 8 |
| Intestine Large, Rectum | A | + | + | + | + | + | A | A | + | + | 7 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum | + | + | + | + | + | + | A | + | + | + | 9 |
| Intestine Small, Jejunum | A | + | + | + | + | + | A | A | + | + | 7 |
| Liver | + | + | + | + | + | + | + | + | + | + | 10 |
| Hepatodiaphragmatic Nodule | | | | | | | | | X | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 10 |
| Erosion, Focal | | | 1 | | | | | | | | 1 1.0 |

Cardiovascular System

| | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|--------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | 10 |
| Heart | + | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Mononuclear CI | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 1 | 1 | 3 | 10 1.9 |
| Myocardium, Necrosis | 1 | | 2 | | | | 1 | 1 | | 2 | 5 1.4 |
| Myocardium, Vacuolization Cytoplasmic | 2 | 2 | 3 | 1 | 1 | 1 | 2 | | 2 | 2 | 9 1.8 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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M ..Missing tissue

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1-4 ..Lesion qualified as:

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
600 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | |
| | 9 | 2 | 4 | 2 | 9 | 3 | 6 | 2 | 7 | 1 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | *TOTALS | | | | | | | | | | |

Endocrine System

| | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | 10 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | M | + | + | + | + | + | + | M | + | + | 8 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | 10 |

General Body System

NONE

Genital System

| | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|-------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Ovary | + | + | + | + | + | + | + | + | + | + | 10 |
| Cyst | | | 2 | | | | | | | | 1 2.0 |
| Uterus | + | + | + | + | + | + | + | + | + | + | 10 |

Hematopoietic System

| | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|-------|-------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | 10 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | 0 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | 10 | |
| Atrophy | | | 2 | | | | | | | | 1 2.0 | |
| Necrosis, Lymphoid | | | 1 | 2 | 2 | 3 | 1 | | 2 | 1 | 3 | 8 1.9 |
| Spleen | + | + | + | + | + | + | + | + | + | + | 10 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
600 MG/KG

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

*TOTALS

| | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|----|-----|
| Spleen | + | + | + | + | + | + | + | + | + | + | 10 | |
| Atrophy | 2 | 3 | 2 | 2 | 2 | 1 | | 2 | 1 | 2 | 9 | 1.9 |
| Necrosis, Lymphoid | | | 1 | 2 | 1 | 2 | 1 | 3 | 2 | 1 | 8 | 1.6 |
| Thymus | + | + | + | + | + | + | + | + | + | + | 10 | |
| Atrophy | | | 2 | 3 | 3 | | | | | | 3 | 2.7 |
| Necrosis | | | 4 | 2 | 4 | 3 | 2 | 1 | 1 | 2 | 8 | 2.4 |
| Integumentary System | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | 10 | |
| Skin | + | + | + | + | + | + | + | + | + | + | 10 | |
| SOA Dermis, Fibrosis | | | | | | | | 2 | | | 1 | 2.0 |
| Musculoskeletal System | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | 10 | |
| Nervous System | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | 10 | |
| Respiratory System | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | 10 | |
| Inflammation, Acute | | | | | | 3 | | | | | 1 | 3.0 |
| Inflammation, Chronic | | | | | 1 | | | | | | 1 | 1.0 |
| Nose | A | + | + | + | + | + | + | + | + | + | 9 | |
| Olfactory Epi, Degeneration | | | 2 | | 2 | 1 | | | 2 | | 4 | 1.8 |
| Trachea | + | + | + | + | + | + | + | + | + | + | 10 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99028-03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/17/2014

Time Report Requested: 22:42:35

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
600 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---------------------------------------|----------------|---|---|---|---|---|---|---|---|---|-------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | |
| | 9 | 2 | 4 | 2 | 9 | 3 | 6 | 2 | 7 | 1 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | *TOTALS | | | | | | | | | | |
| Infiltration Cellular, Polymorphnuclr | 2 | | | | | | | | | | 1 2.0 |

Special Senses System

| | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | 10 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Pigmentation, Porphyrin | | | 1 | | 3 | | 1 | | 1 | | 4 1.5 |

Urinary System

| | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Kidney | + | + | + | + | + | + | + | + | + | + | 10 |
| Cortex, Renal Tubule, Necrosis | | | | | 2 | | | | | | 1 2.0 |
| Papilla, Renal Tubule, Mineralization | 1 | 1 | | | | | 1 | | 1 | 1 | 5 1.0 |
| Renal Tubule, Regeneration | 1 | | | 2 | | | | | 1 | | 3 1.3 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | 10 |

** END OF REPORT **

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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M ..Missing tissue

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2) Mild 4) Marked