

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

C Number: C99028
Lock Date: 07/12/2005
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: 11/13/2007

Experiment Number: 99028-05

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Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
Note: Massons trichrome stain confirmed reported cardiac histology results			
* Intestine Large, Rectum		Parasite Metazoan	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
* Nose		Inflammation	Mild
		Polyp, Inflammatory	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
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Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 1	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404121

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-13]		
* Thymus		Atrophy	Mild
Zymbal's Gland		Adenoma	
	[Adenoma TGLS = 2-16]		

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 634
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Hyperplasia	Marked
* Brain	Hypothalamus	Compression	Mild
		Hydrocephalus	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Nose		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

[Adenoma TGLS = 1-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 634
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404122

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Mild
		Inflammation	Mild
* Skin		Edema	Mild
	SOA Dermis	Inflammation	Minimal
	[Edema TGLS = 4-16]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-16]		
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-13]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 3	TRT#: 1	SEX: Male	DAY ON TEST: 538
	DOSE: 0 MG/KG	DISP: Natural Death	HISTO: 0404123

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Brain	Hypothalamus	Compression	Moderate
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[Adenoma TGLS = 1-8]		
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 538

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 0404123

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 4	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404124

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
Note: Massons trichrome stain confirmed reported cardiac histology results			
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 4	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404124

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[Adenoma TGLS = 1-16]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 5	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
Note: Massons trichrome stain confirmed reported cardiac histology results			
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 5	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404125

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 2-16]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Moderate
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Mild
		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6	TRT#: 1	SEX: Male	DAY ON TEST: 682
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
		Thrombosis	Moderate
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2-6+7]	
* Lung		Inflammation	Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-16]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6	TRT#: 1	SEX: Male	DAY ON TEST: 682
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404126

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[Adenoma TGLS = 3-8]		
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-5]		
* Stomach, Forestomach		Leukemia Mononuclear	
* Thymus		Atrophy	Marked
		Ectopic Parathyroid Gland	Minimal
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 7	TRT#: 1	SEX: Male	DAY ON TEST: 570
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pituitary Gland		Cyst	Mild
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 7	TRT#: 1	SEX: Male	DAY ON TEST: 570
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404127

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Trichoepithelioma	
[Trichoepithelioma TGLS = 1-16]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Skin Trichoepithelioma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404128

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
Note: Massons trichrome stain confirmed reported cardiac histology results			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
	Duct	Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 8	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404128

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-8]		Angiectasis	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	Bilateral, C Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 9	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Intestine Large, Cecum	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
Note: Massons trichrome stain confirmed reported cardiac histology results			
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-17]			
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 1-16]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 9	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404129

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Foreign Body	
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Acinus	Atrophy	Mild
	Duct	Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
	[Adenoma TGLS = 3-8]		
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 677

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404130

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
	[Adenoma TGLS = 3-8]		
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 10	TRT#: 1	SEX: Male	DAY ON TEST: 677
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404130

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Inflammation	Mild
* Testes	Germinal Epith	Hematopoietic Cell Proliferation	Minimal
	[Atrophy TGLS = 2-13]	Atrophy	Marked
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Brain	Hypothalamus	Compression	Mild
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
	[Adenoma TGLS = 2-8]		
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 11	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404131

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Hematopoietic Cell Proliferation	Minimal
	[Adenoma TGLS = 1-13]	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 584

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 0404132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-9]			
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6+7]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-19]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 12	TRT#: 1	SEX: Male	DAY ON TEST: 584
	DOSE: 0 MG/KG	DISP: Natural Death	HISTO: 0404132

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 6-18]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-17]			
Oral Mucosa	Gingival	Cyst Inflammation	Mild Granulomatous, Moderate
[Cyst TGLS = 2-20]			
* Pituitary Gland		Cyst	Minimal
* Preputial Gland		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-16]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 8-13]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: bis(2-Chloroethoxy)methane
 CAS Number: 111-91-1

Date Report Requested: 10/22/2014
 Time Report Requested: 00:16:39
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 656

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 0404133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone	Joint	Inflammation	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Mixed Cell Focus	
* Mammary Gland		Hyperplasia	Minimal
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked

[Adenoma TGLS = 1-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 13	TRT#: 1	SEX: Male	DAY ON TEST: 656
	DOSE: 0 MG/KG	DISP: Natural Death	HISTO: 0404133

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Inflammation	Mild
* Prostate	Hyperplasia	Minimal
	Inflammation	Mild
* Seminal Vesicle	Inflammation	Mild
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Thymus	Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 583

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone	Joint	Inflammation	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Mild
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 14	TRT#: 1	SEX: Male	DAY ON TEST: 583
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404134

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 1-16]			
* Pancreas	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Marked
[Adenoma TGLS = 2-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia Inflammation	Minimal Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 717

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Atrophy	Moderate
* Brain	Cranial Nerve	Schwannoma Malignant	
Note: The left upper tooth mass (TGL #1) identified at necropsy had a microscopic correlate of Schwannoma of the brain (site = trigeminal cranial nerve) [Schwannoma Malignant TGLS = 1-1+2]			
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Lipoma	
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6+7]			
* Lung		Inflammation	Minimal
		Leukemia Mononuclear	
		Metaplasia	Osseous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 15	TRT#: 1	SEX: Male	DAY ON TEST: 717
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404135

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Inflammation	Mild
Oral Mucosa	Gingival	Cyst	Marked
Note: The right molar tooth mass (TGL #4) noted at tissue trim was examined microscopically and diagnosed as an oral cavity cyst [Cyst TGLS = 4-1]			
* Pancreas	Acinus	Atrophy	Mild
	Duct	Cyst	Minimal
* Pituitary Gland		Atrophy	Moderate
[Atrophy TGLS = 3-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Brain Cranial Nerve Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain		Hydrocephalus	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
		Inflammation	Chronic Active, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 16	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404136

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Duct Pars Distalis	Cyst Adenoma Angiectasis	Minimal Marked
[Adenoma TGLS = 1-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia Inflammation	Minimal Mild
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 691

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404137

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pancreas	Duct	Cyst	Marked
	Acinus	Hyperplasia	Mild

Note: The enlarged pancreatic lymph node noted at necropsy was examined microscopically and diagnosed as a cystic pancreatic duct

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 17	TRT#: 1	SEX: Male	DAY ON TEST: 691
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404137

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 1-16]			
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Marked
[Adenoma TGLS = 2-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia Inflammation	Minimal Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404138

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Fatty Change	Mild
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Mild
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland		Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 18	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404138

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-13]

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 316

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404139

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Sarcoma	

[Sarcoma TGLS = 1-16]

PRIMARY CAUSE OF DEATH

- Spleen Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404140

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Pituitary Gland		Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 20	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404140

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Hematopoietic Cell Proliferation	Minimal
	[Adenoma TGLS = 1-13]	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 645

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404141

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
	[Hyperplasia TGLS = 4-6+7]		
* Lung		Hemangiosarcoma	Metastatic (Skeletal Muscle)
* Nose	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas	Acinus	Atrophy	Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Mild
Skeletal Muscle		Hemangiosarcoma	
	[Hemangiosarcoma TGLS = 2-17]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 21	TRT#: 1	SEX: Male	DAY ON TEST: 645
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404141

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibrosarcoma TGLS = 1-16]	Subcut Tiss	Fibrosarcoma	
* Spleen [Hematopoietic Cell Proliferation TGLS = 3-17]		Hematopoietic Cell Proliferation	Moderate
* Testes [Adenoma TGLS = 5-13]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma
CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

Animal Note: The mammary gland mass described at necropsy was examined microscopically and diagnosed as a dermal neoplasm

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 684

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Eye	Retina	Atrophy	Moderate
		Cataract	Moderate
	[Cataract TGLS = 5-10]		
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
	[Nephropathy TGLS = 4-5]		
* Liver		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 22	TRT#: 1	SEX: Male	DAY ON TEST: 684
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404142

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate
[Adenoma TGLS = 6-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-16]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell C Cell	Adenoma Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 695

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-9]		
* Heart		Cardiomyopathy	Mild
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
		Thrombosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
	[Leukemia Mononuclear TGLS = 4-6+7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-17]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 23	TRT#: 1	SEX: Male	DAY ON TEST: 695
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404143

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 7-18]		Leukemia Mononuclear	
Mesentery [Necrosis TGLS = 5-16]	Fat	Necrosis	Mild
* Nose		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Skin [Ulcer TGLS = 1-13]	SOA Dermis SOA Epidermis	Inflammation Ulcer	Minimal Minimal
* Spleen [Leukemia Mononuclear TGLS = 3-5]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2-13]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 698

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hemorrhage	Moderate
* Bone Marrow		Histiocytic Sarcoma	
* Heart		Cardiomyopathy	Mild
	Myocardium	Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
* Kidney		Vacuolization Cytoplasmic	Mild
* Liver		Nephropathy	Minimal
	[Histiocytic Sarcoma TGLS = 5-6+7]	Histiocytic Sarcoma	
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 7-4]	Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
* Mammary Gland		Hyperplasia	Mild
Mesentery		Histiocytic Sarcoma	
	Fat	Necrosis	Mild
	[Histiocytic Sarcoma TGLS = 6-18]		
	[Necrosis TGLS = 3-16]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 24	TRT#: 1	SEX: Male	DAY ON TEST: 698
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404144

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Mild
	Duct	Cyst	Minimal
		Histiocytic Sarcoma	
* Preputial Gland		Adenoma	
		Inflammation	Mild
[Adenoma TGLS = 1,8-14+19]			
* Spleen		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 2-17]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-13]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Histiocytic Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404145

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Epididymis		Mesothelioma Malignant	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Moderate
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Mild
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Mild
	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 25	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404145

ORGAN AND ACCOUNTABLE SITE STATUS

		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	Tunic	Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 1-13]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 724

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 0404146

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Moderate
		Hemorrhage	Moderate
		Hydrocephalus	Mild
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
		Schwannoma Benign	
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked

[Adenoma TGLS = 3-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 26	TRT#: 1	SEX: Male	DAY ON TEST: 724
	DOSE: 0 MG/KG	DISP: Natural Death	HISTO: 0404146

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[Adenoma TGLS = 1-13]		
	[Atrophy TGLS = 2-13]		
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 691

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 0404147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
		Fibrosis	Mild
		Hematopoietic Cell Proliferation	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
	[Hepatodiaphragmatic Nodule TGLS = 2-16]		
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
	[Adenoma TGLS = 3-8]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 27	TRT#: 1	SEX: Male	DAY ON TEST: 691
	DOSE: 0 MG/KG	DISP: Natural Death	HISTO: 0404147

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-13]		
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404148

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Mild
		[Hepatodiaphragmatic Nodule TGLS = 4-16]	
		[Leukemia Mononuclear TGLS = 5-6+7]	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-16]	
* Mammary Gland		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 28	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404148

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
	[Adenoma TGLS = 6-8]		
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Mild
		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-16]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-17]		
* Thymus		Atrophy	Marked
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404149

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Nose		Foreign Body	
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 29	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404149

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-16]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-13]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 533

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404150

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Granuloma Sperm	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear Cl, Mild
	Myocardium	Necrosis	Minimal
		Schwannoma Benign	
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Metaplasia	Respiratory, Mild
* Preputial Gland		Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 30	TRT#: 1	SEX: Male	DAY ON TEST: 533
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404150

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-14]		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-16]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 691

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404151

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Fibrosis	Minimal
	Endothelium	Hyperplasia	Mild
	Myocardium	Infiltration Cellular	Mononuclear Cl, Minimal
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Intestine Large, Cecum		Inflammation	Moderate
		Leukemia Mononuclear	
		[Inflammation TGLS = 4-7]	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Fibrosis	Mild
		Leukemia Mononuclear	
		Necrosis	Mild
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Inflammation	Chronic Active, Minimal
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 31	TRT#: 1	SEX: Male	DAY ON TEST: 691
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404151

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Stomach, Glandular		Inflammation	Moderate
		Ulcer	Moderate
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-16]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 669

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404152

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear Cl, Minimal
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
		Necrosis	Marked
	[Leukemia Mononuclear TGLS = 4-6+7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-16]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7,8-17]		
* Mammary Gland		Hyperplasia	Minimal
Mesentery		Accessory Spleen	Minimal
	[Accessory Spleen TGLS = 6-17]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 32	TRT#: 1	SEX: Male	DAY ON TEST: 669
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404152

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Skin	Subcut Tiss	Fibroma	
Note: The thoracic mammary gland mass noted at necropsy was examined microscopically and diagnosed as a dermal neoplasm [Fibroma TGLS = 1-18]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-16]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-13]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear Cl, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Leukemia Mononuclear	
* Lung		Inflammation	Minimal
* Lymph Node, Mesenteric		Ectasia	Moderate
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 6-17]	
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 33	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404153

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Mild
* Skin		Cyst Epithelial Inclusion	Mild
Note: The crusted area of the treated skin site noted at necropsy was not found by the tissue trimmers. [Cyst Epithelial Inclusion TGLS = 1-16]			
Spinal Cord		Astrocytoma Malignant	
Note: The dermal mass (on tail, TGL #2) was examined microscopically and diagnosed as a spinal cord neoplasm [Astrocytoma Malignant TGLS = 2-18]			
* Spleen		Hematopoietic Cell Proliferation Leukemia Mononuclear	Mild
[Leukemia Mononuclear TGLS = 5-16]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-17]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 34

TRT#: 1

DOSE: 0 MG/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 441

HISTO: 0404154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Pituitary Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 655

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 5-18]		
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
		Mesothelioma Malignant	Metastatic (Lung)
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Lipofuscin, Moderate
* Liver		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Serosa	Mesothelioma Malignant	

Note: The thoracic cavity nodules noted at necropsy were examined microscopically and diagnosed as pulmonary neoplasms

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 35	TRT#: 1	SEX: Male	DAY ON TEST: 655
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404155

ORGAN AND ACCOUNTABLE SITE STATUS

[Mesothelioma Malignant TGLS = 9-17]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 8-16]			
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 2-20]			
* Pancreas	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
[Adenoma TGLS = 1-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	Tunic	Mesothelioma Malignant	
[Adenoma TGLS = 4-19]			
[Mesothelioma Malignant TGLS = 6-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Trachea		Inflammation	Mild

PRIMARY CAUSE OF DEATH - Epididymis Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 36	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404156

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-8]		Angiectasis	Moderate
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Mild
		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-13]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404157

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose		Foreign Body	
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Moderate
	Olfactory Epi	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 37	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404157

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Angiectasis	Mild
* Prostate	Inflammation	Mild
	Hyperplasia	Mild
	Inflammation	Mild
* Stomach, Glandular	Ectopic Tissue	
* Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404158

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
[Pigmentation TGLS = 2-10]			
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
		Inflammation	Minimal
[Alveolar/Bronchiolar Carcinoma TGLS = 5-3]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-16]			
* Nose		Foreign Body	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 38	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404158

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
	[Adenoma TGLS = 1-16]		
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Mild
		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 4-13]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicle	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404159

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Moderate
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Mild
		Eosinophilic Focus	
		Fatty Change	Minimal
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
* Lung		Alveolar/Bronchiolar Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 39	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404159

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 1-16]	Fat	Necrosis	Moderate
* Nose		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
		Angiectasis	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Spleen [Leukemia Mononuclear TGLS = 3-5]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2-13]	Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404160

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Mild
		Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	

[Basophilic Focus TGLS = 3-17]

[Hepatodiaphragmatic Nodule TGLS = 2-16]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 40	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404160

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Alveolar/Bronchiolar Adenoma	Multiple
	[Alveolar/Bronchiolar Adenoma TGLS = 5,6-3+4]		
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pancreas	Duct	Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
		Angiectasis	Minimal
		Cyst	Minimal
	[Adenoma TGLS = 7-8]		
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-13]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	Multiple
		Cyst	Minimal
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404161

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Inflammation	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear Cl, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Parasite Metazoan	Moderate
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
[Hyperplasia TGLS = 3-6+7]			
* Lung		Leukemia Mononuclear	
* Pituitary Gland		Angiectasis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 41	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404161

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Minimal
		Hyperplasia	Minimal
		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 4-8]			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 687

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 0404162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
	[Adenoma TGLS = 1-8]		
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 42	TRT#: 1	SEX: Male	DAY ON TEST: 687
	DOSE: 0 MG/KG	DISP: Natural Death	HISTO: 0404162

ORGAN AND ACCOUNTABLE SITE STATUS

	Inflammation	Mild
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 677

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear Cl, Mild
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Mild
		[Leukemia Mononuclear TGLS = 2-6+7]	
* Lung		Inflammation	Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-6]	
* Pituitary Gland	Pars Distalis	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 43	TRT#: 1	SEX: Male	DAY ON TEST: 677
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404163

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Angiectasis	Moderate
		Hyperplasia	Mild
[Adenoma TGLS = 3-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-16]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Cyst	Minimal
[Adenoma TGLS = 3-8]			
* Preputial Gland		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 44	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404164

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 2-16]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 691

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Moderate
	Bilateral	Pheochromocytoma Benign	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
		Thrombosis	Moderate
	Myocardium	Vacuolization Cytoplasmic	Mild
	[Thrombosis TGLS = 3-12]		
* Intestine Large, Cecum		Edema	Moderate
* Intestine Small, Jejunum		Granular Cell Tumor Malignant	
	[Granular Cell Tumor Malignant TGLS = 5-16]		
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 2-5]		
* Liver		Degeneration	Cystic, Mild
		Fatty Change	Mild
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 45	TRT#: 1	SEX: Male	DAY ON TEST: 691
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404165

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Skin	Hair Follicle, SOA Epidermis	Atrophy	Marked
[Atrophy TGLS = 1-17]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Intestine Small;Jejunum Granular Cell Tumor Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 692

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change	Mild
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Moderate
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 1-16]	
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 46	TRT#: 1	SEX: Male	DAY ON TEST: 692
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404166

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 2-16]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Seminal Vesicle		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 47	TRT#: 1	SEX: Male	DAY ON TEST: 684
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Eye	Retina	Atrophy	Moderate
		Cataract	Moderate
	Sclera	Metaplasia	Osseous, Mild
[Cataract TGLS = 4-10]			
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6+7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 47	TRT#: 1	SEX: Male	DAY ON TEST: 684
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404167

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Foreign Body	
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas	Duct	Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
	[Adenoma TGLS = 5-8]		
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-5]		
* Testes	Germinal Epith	Mineralization	Minimal
	[Mineralization TGLS = 1-13]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

[Adenoma TGLS = 3-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 48	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404168

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Skin	Subcut Tiss	Fibrosarcoma	
	Subcut Tiss	Schwannoma Malignant	
Note: The mammary gland mass noted at necropsy (TGL #2) was examined microscopically and diagnosed as a dermal neoplasm [Fibrosarcoma TGLS = 2-16] [Schwannoma Malignant TGLS = 1-17]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 661

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		[Hepatodiaphragmatic Nodule TGLS = 5-17]	
		[Leukemia Mononuclear TGLS = 3,7-6+7]	
* Lung		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 8-3+4]	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 49	TRT#: 1	SEX: Male	DAY ON TEST: 661
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404169

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 6-18]			
[Leukemia Mononuclear TGLS = 4-16]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-17]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 9,10-19+20]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Foreign Body	
		Inflammation	Minimal
		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Mild
[Adenoma TGLS = 11-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
		Leukemia Mononuclear	
* Skin	Epidermis	Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 1-18]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-16]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 620

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 0404170

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Mild
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose		Foreign Body	
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 50	TRT#: 1	SEX: Male	DAY ON TEST: 620
	DOSE: 0 MG/KG	DISP: Natural Death	HISTO: 0404170

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
[Adenoma TGLS = 1-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 584

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Infarct	Mild
		Leukemia Mononuclear	
		Nephropathy	Mild
		[Infarct TGLS = 2-5]	
* Liver	Bile Duct	Cyst	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Inflammation	Mild
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-3+4]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 51	TRT#: 3	SEX: Male	DAY ON TEST: 584
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404171

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Inflammation	Mild
* Pancreas	Duct	Cyst	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-16]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 52

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404172

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibrosarcoma	
[Fibrosarcoma TGLS = 2-20]			
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-6+7]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-3+4]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-16]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 52	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404172

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration Foreign Body Inflammation	Minimal Mild
* Pancreas [Leukemia Mononuclear TGLS = 8-6]		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia Leukemia Mononuclear	Mild
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen [Leukemia Mononuclear TGLS = 3,4,5-16+17+18]		Leukemia Mononuclear	
* Testes	Interstit Cell Germinal Epith	Adenoma Mineralization	 Mild
[Adenoma TGLS = 6-19] [Mineralization TGLS = 6-19]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Minimal
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Mild
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 53	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404173

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Foreign Body Inflammation Adenoma Angiectasis	Mild Marked
[Adenoma TGLS = 1-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Hydrocephalus	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Minimal
* Nose		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked

[Adenoma TGLS = 2-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 54	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404174

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 502

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Mild
		Leukemia Mononuclear	
* Pituitary Gland		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 55	TRT#: 3	SEX: Male	DAY ON TEST: 502
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404175

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Pars Distalis	Hyperplasia	Moderate
* Prostate		Inflammation	Mild
		Hyperplasia	Minimal
		Inflammation	Minimal
* Skin	SOA Dermis	Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-16]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-16]			
* Nose		Foreign Body	
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 56	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404176

ORGAN AND ACCOUNTABLE SITE STATUS

		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[Adenoma TGLS = 3-8]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-13]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH -

Animal Note: TGL 1=NCL (No Corresonding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 57 TRT#: 3 SEX: Male DAY ON TEST: 654
DOSE: 75 MG/KG DISP: Moribund Sacrifice HISTO: 0404177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
		Thrombosis	Mild
	Myocardium	Vacuolization Cytoplasmic	Moderate
	[Thrombosis TGLS = 5-11]		
* Kidney		Nephropathy	Mild
* Liver		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 57	TRT#: 3	SEX: Male	DAY ON TEST: 654
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404177

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Duct	Cyst	Minimal
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Skin		Basal Cell Carcinoma	
[Basal Cell Carcinoma TGLS = 4-16]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Stomach, Forestomach		Inflammation	Moderate
		Ulcer	Moderate
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
		Schwannoma Benign	
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Mixed Cell Focus	

[Hepatodiaphragmatic Nodule TGLS = 2,3-16]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 58	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404178

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration Inflammation	Minimal Mild
* Pituitary Gland	Pars Distalis	Adenoma Cyst	Mild
	Pars Distalis	Hyperplasia Inflammation	Mild Mild
* Preputial Gland		Hematopoietic Cell Proliferation	Minimal
* Spleen		Adenoma	
* Testes	Bilateral, Interstit Cell		
	[Adenoma TGLS = 1-13]		
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Eye	Retina	Atrophy	Moderate
		Cataract	Moderate
	Sclera	Metaplasia	Osseous, Mild
	[Cataract TGLS = 3-10]		
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Preputial Gland		Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 59	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404179

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 1-5]		Inflammation Leukemia Mononuclear	Mild
* Testes [Adenoma TGLS = 2-13]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 60

TRT#: 3

SEX: Male

DAY ON TEST: 617

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Mild
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 2-16]		
* Mammary Gland		Hyperplasia	Minimal
* Nose	Glands	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 60	TRT#: 3	SEX: Male	DAY ON TEST: 617
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404180

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 1-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 505

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
	[Adenoma TGLS = 1-8]		
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Stomach, Glandular		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 61	TRT#: 3	SEX: Male	DAY ON TEST: 505
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404181

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus	Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 631

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Angiectasis	Mild
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Hyperplasia	Minimal
* Heart		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-3+4]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
		Foreign Body	
		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 62	TRT#: 3	SEX: Male	DAY ON TEST: 631
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404182

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-16]			
* Testes	Interstit Cell	Adenoma	
		Inflammation	Granulomatous, Minimal
[Adenoma TGLS = 3-13]			
[Inflammation TGLS = 3-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 670

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Testes	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung		Inflammation	Minimal
		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 4-16]		
* Nose	Olfactory Epi	Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 63	TRT#: 3	SEX: Male	DAY ON TEST: 670
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404183

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Foreign Body	
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Atrophy	Mild
		Adenoma	
		Angiectasis	Moderate
	[Adenoma TGLS = 1-8]		
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2,5-16+17]		
* Stomach, Glandular		Ulcer	Moderate
	[Ulcer TGLS = 6-18]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Pituitary Gland		Angiectasis	Mild
		Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Mild
		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 64	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404184

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Cyst Epithelial Inclusion	
Note: The Mammary Gland mass described at necropsy was examined microscopically and diagnosed as a dermal cyst. [Cyst Epithelial Inclusion TGLS = 1-16]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 442

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 442

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404185

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
		Mesothelioma Malignant	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 66	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404186

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung	Alveolar Epith	Inflammation	Minimal
		Hyperplasia	Minimal
		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
	[Adenoma TGLS = 1-8]		
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Nose		Foreign Body	
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Minimal
* Skin		Basal Cell Adenoma	

[Basal Cell Adenoma TGLS = 2-16]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 67	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404187

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-13]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 386

DOSE: 75 MG/KG

DISP: Natural Death

HISTO: 0404188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Complex	
	[Pheochromocytoma Complex TGLS = 1-16]		
* Heart		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- Adrenal Medulla Pheochromocytoma Complex

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 586

DOSE: 75 MG/KG

DISP: Natural Death

HISTO: 0404189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Mild
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung		Congestion	Mild
		[Congestion TGLS = 1-3+4]	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
		[Adenoma TGLS = 2-8]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 69	TRT#: 3	SEX: Male	DAY ON TEST: 586
	DOSE: 75 MG/KG	DISP: Natural Death	HISTO: 0404189

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Inflammation	Minimal
* Prostate	Hyperplasia	Minimal
	Inflammation	Mild
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Thymus	Atrophy	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 670

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear Cl, Minimal
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
		Necrosis	Minimal

[Eosinophilic Focus TGLS = 3-16]
 [Leukemia Mononuclear TGLS = 2-6+7]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 70	TRT#: 3	SEX: Male	DAY ON TEST: 670
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404190

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-16]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-13]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
		Angiectasis	Mild
[Adenoma TGLS = 1-8]			
* Preputial Gland		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 71	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404191

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Small, Ileum		Inflammation	Mild
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Mild

Note: The mesenteric nodule noted at necropsy was examined microscopically and diagnosed as a mammary gland hyperplasia [Hyperplasia TGLS = 2-16]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 72	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404192

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration Inflammation	Minimal Mild
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[Adenoma TGLS = 3-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia Inflammation	Minimal Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-16]			
* Nose		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 73	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404193

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[Adenoma TGLS = 3-8]			
* Preputial Gland		Inflammation	Mild
* Skin		Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion TGLS = 1-16]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH -

Animal Note: TGL 2=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Brain		Hydrocephalus	Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Coron Artery	Inflammation	Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose		Inflammation	Mild
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
[Adenoma TGLS = 1-8]			
* Preputial Gland		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 74	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404194

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Hyperplasia	Mild
		Inflammation	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	Follicle	Cyst	
	Follicle	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 526

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Brain		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-16]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild
* Pancreas	Duct	Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
[Adenoma TGLS = 1-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 75	TRT#: 3	SEX: Male	DAY ON TEST: 526
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404195

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Cyst	Mild
		Inflammation	Mild
* Prostate		Hyperplasia	Mild
		Inflammation	Mild
* Thymus		Atrophy	Marked
* Urinary Bladder	Muscularis	Mineralization	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404196

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
	Duct	Cyst	Mild
* Pituitary Gland		Angiectasis	Mild
		Cyst	Minimal
	Pars Distalis	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 76	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404196

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 3-8]			
* Preputial Gland		Adenoma Inflammation	Mild
[Adenoma TGLS = 1-16]			
* Prostate		Hyperplasia Inflammation	Minimal Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 351

DOSE: 75 MG/KG

DISP: Natural Death

HISTO: 0404197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404198

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain		Hydrocephalus	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Leukemia Mononuclear	
		[Hepatodiaphragmatic Nodule TGLS = 2-16]	
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
		[Adenoma TGLS = 3-8]	
* Preputial Gland		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 78	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404198

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 673

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Esophagus		Inflammation	Marked
		Ulcer	Marked
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Moderate
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Minimal
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Moderate
* Nose		Foreign Body	
		Inflammation	Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 79	TRT#: 3	SEX: Male	DAY ON TEST: 673
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404199

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1-16]

* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Mild
		Inflammation	Minimal
* Skin	SOA Dermis	Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicle	Hyperplasia	Minimal
		Inflammation	Mild

PRIMARY CAUSE OF DEATH	- Lung Inflammation
CONTRIBUTORY CAUSE OF DEATH	- Esophagus Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-16]			
* Nose		Foreign Body	
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 80	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404200

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland		Cyst	Minimal
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 654

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404201

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 81	TRT#: 3	SEX: Male	DAY ON TEST: 654
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404201

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate
[Adenoma TGLS = 1-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia Inflammation	Minimal Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404202

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Small, Duodenum	Epithelium	Hyperplasia	Mild
		Ulcer	Mild
* Kidney	Renal Tubule	Cyst	Mild
		Nephropathy	Mild
		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 82	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404202

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 2-16]	Fat	Necrosis	Moderate
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland [Hyperplasia TGLS = 4-8]	Pars Distalis	Angiectasis Hyperplasia	Mild Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia Inflammation	Minimal Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes [Adenoma TGLS = 1-13]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 2-8]		
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 1-5]		
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 4-16]		
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild
* Pituitary Gland		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 83	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404203

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Pars Distalis	Hyperplasia	Moderate
* Prostate		Inflammation	Mild
		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
		Mesothelioma Malignant	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Marked
		[Nephropathy TGLS = 4-5]	
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Preputial Gland		Adenoma	
		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 84	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404204

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-14]			
* Skin		Basal Cell Adenoma	
[Basal Cell Adenoma TGLS = 1-16]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-13]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 708

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Hydrocephalus	Marked
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Necrosis	Mild
		[Leukemia Mononuclear TGLS = 2,4-6+7]	
* Lung	Artery	Hyperplasia	Mild
		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Intermed	Adenoma	
		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 85	TRT#: 3	SEX: Male	DAY ON TEST: 708
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404205

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-8]			
* Preputial Gland		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-16]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 3-13]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Intermed Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 86	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404206

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1,2-14]		Inflammation	Moderate
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-13]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Mild
* Nose	Olfactory Epi	Degeneration	Mild
		Foreign Body	
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 87	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404207

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-8]		Angiectasis	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 670

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Nose		Foreign Body	
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Skin		Hemorrhage	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 88	TRT#: 3	SEX: Male	DAY ON TEST: 670
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404208

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 1-16]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Pancreas	* Salivary Glands	* Seminal Vesicle	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
* Mammary Gland		Hyperplasia	Mild
* Nose	Olfactory Epi	Degeneration	Minimal
		Foreign Body	
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 89	TRT#: 3	SEX: Male	DAY ON TEST: 656
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404209

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-8]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Skin		Cyst Epithelial Inclusion	Moderate
	SOA Dermis	Fibrosis	Minimal
	SOA Epidermis	Hyperkeratosis	Mild
	Dermis	Inflammation	Mild
[Cyst Epithelial Inclusion TGLS = 1-17]			
[Inflammation TGLS = 2-16]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Inflammation	Marked
		Ulcer	Marked
* Stomach, Glandular		Inflammation	Minimal
* Testes	Germinal Epith	Atrophy	Marked
	Tunic	Fibrosis	Minimal
[Atrophy TGLS = 4-13]			
[Fibrosis TGLS = 3-13]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 2-15+17+18]			
* Eye	Sclera	Metaplasia	Osseous, Mild
Note: Both optic nerves were missing			
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Adenoma	
		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404210

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Mesothelioma Malignant TGLS = 3-16]		Inflammation Mesothelioma Malignant	Minimal
* Nose		Foreign Body	
* Pituitary Gland [Hyperplasia TGLS = 5-8]	Pars Distalis	Inflammation Angiectasis Hyperplasia	Mild Moderate Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
* Spleen		Inflammation	Mild
* Stomach, Forestomach		Hematopoietic Cell Proliferation	Minimal
* Testes [Adenoma TGLS = 4-13] [Mesothelioma Malignant TGLS = 1-13]	Bilateral, Interstit Cell Tunic	Mesothelioma Malignant Adenoma Mesothelioma Malignant	Metastatic (Epididymis)
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 645

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404211

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Mild
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Mild
[Fatty Change TGLS = 2-6+7]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 91	TRT#: 3	SEX: Male	DAY ON TEST: 645
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404211

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]			
* Preputial Gland		Cyst	Mild
		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Stomach, Glandular		Inflammation	Moderate
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 716

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404212

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Brain		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		[Hyperplasia TGLS = 3-6+7]	
* Lung		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
		[Necrosis TGLS = 2-16]	
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 92	TRT#: 3	SEX: Male	DAY ON TEST: 716
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404212

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-8]		Angiectasis	Moderate
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Mammary Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

INSUFFICIENT TISSUE

* Nose

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Degeneration	Cystic, Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 4,8-17+18]		
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung		Alveolar/Bronchiolar Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 93	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404213

ORGAN AND ACCOUNTABLE SITE STATUS

	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Mild
		Leukemia Mononuclear	
	[Alveolar/Bronchiolar Carcinoma TGLS = 5-4]		
	[Inflammation TGLS = 6-4]		
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[Adenoma TGLS = 7-8]		
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Skin	SOA Epidermis	Basal Cell Adenoma	
	Artery, SOA Dermis	Inflammation	Mild
	[Basal Cell Adenoma TGLS = 1-16]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-16]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404214

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Preputial Gland		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 94	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404214

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404215

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
	Duct	Cyst	Minimal
* Pituitary Gland		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 95	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404215

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-13]		
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
Note: There was no microscopic finding to correlate with the gross observation at necropsy of dark discoloration of the median lobe of the liver			
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 96	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404216

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 1-16]			
* Nose		Inflammation	Moderate
	Olfactory Epi	Metaplasia	Respiratory, Moderate
* Pituitary Gland		Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Spleen		Hemangioma	
[Hemangioma TGLS = 3-16]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404217

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Cecum		Adenoma	
	[Adenoma TGLS = 1-16]		
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 97	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404217

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Mild
		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404218

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 1-5]		
* Liver		Angiectasis	Minimal
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Mild
		Inflammation	Minimal
	[Clear Cell Focus TGLS = 2-16]		
* Lung		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 98	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404218

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]		Angiectasis	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 478

DOSE: 75 MG/KG

DISP: Natural Death

HISTO: 0404219

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Mild
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 1-16]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-3+4]		
* Preputial Gland		Inflammation	Mild
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 99	TRT#: 3	SEX: Male	DAY ON TEST: 478
	DOSE: 75 MG/KG	DISP: Natural Death	HISTO: 0404219

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus	Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Small, Ileum		Leukemia Mononuclear	
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Leukemia Mononuclear	
		Mixed Cell Focus	
* Lung		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 100	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404220

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration Inflammation	Minimal Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Mild
	[Adenoma TGLS = 3-8]		
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia Inflammation	Minimal Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-16]		
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-13]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear Cl, Moderate
	Myocardium	Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
* Intestine Large, Rectum		Vacuolization Cytoplasmic	Moderate
* Kidney		Parasite Metazoan	Mild
		Carcinoma	Metastatic (Thyroid Gland)
		Leukemia Mononuclear	
* Liver		Nephropathy	Mild
		Clear Cell Focus	
		Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 1-16]			
* Lung		Alveolar/Bronchiolar Carcinoma	
		Carcinoma	Metastatic (Thyroid Gland)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 101	TRT#: 5	SEX: Male	DAY ON TEST: 730
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404221

ORGAN AND ACCOUNTABLE SITE STATUS

Alveolar Epith		Hyperplasia Inflammation Leukemia Mononuclear	Mild Minimal
[Alveolar/Bronchiolar Carcinoma TGLS = 5-17] [Hyperplasia TGLS = 5-3]			
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate
[Adenoma TGLS = 6-8]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle Follicle	Carcinoma Hyperplasia	Mild
[Carcinoma TGLS = 4-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 102

TRT#: 5

SEX: Male

DAY ON TEST: 631

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404222

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-9]			
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Mild
		Foreign Body	
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Mild
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-16]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 102	TRT#: 5	SEX: Male	DAY ON TEST: 631
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404222

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Inflammation	Marked
		Leukemia Mononuclear	
		Ulcer	Marked
[Ulcer TGLS = 4-6]			
* Stomach, Glandular		Inflammation	Moderate
		Leukemia Mononuclear	
		Ulcer	Moderate
[Ulcer TGLS = 5-6]			
* Testes	Interstit Cell	Adenoma	
		Leukemia Mononuclear	
		Necrosis	Mild
[Adenoma TGLS = 3-13]			
[Leukemia Mononuclear TGLS = 3-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 103

TRT#: 5

SEX: Male

DAY ON TEST: 704

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404223

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric	* Pancreas
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Carcinoma	
Note: The enlarged pancreatic lymph node noted at necropsy was examined microscopically and diagnosed as a pancreatic islet neoplasm [Carcinoma TGLS = 3-19]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
Lymph Node	Mediastinal	Sarcoma	
[Sarcoma TGLS = 5-16]			
* Mammary Gland		Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 103	TRT#: 5	SEX: Male	DAY ON TEST: 704
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404223

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-17]			
* Nose	Olfactory Epi	Degeneration Inflammation	Minimal Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
* Preputial Gland		Carcinoma Inflammation	Moderate
* Prostate		Hyperplasia Inflammation	Minimal Mild
* Skin	Sebaceous Gl	Hyperplasia	Mild
[Hyperplasia TGLS = 4-18]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Trachea		Inflammation	Mild

PRIMARY CAUSE OF DEATH	- Lymph Node Mediastinal Sarcoma
CONTRIBUTORY CAUSE OF DEATH	- Mammary Gland Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 104

TRT#: 5

SEX: Male

DAY ON TEST: 610

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0404224

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked

[Adenoma TGLS = 1-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 104

TRT#: 5

SEX: Male

DAY ON TEST: 610

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0404224

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Inflammation	Mild
* Prostate	Hyperplasia	Minimal
	Inflammation	Mild
* Spleen	Atrophy	Mild
* Thymus	Atrophy	Marked
* Trachea	Inflammation	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 643

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404225

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Moderate
* Brain	Hippocampus	Necrosis	Mild
	Thalamus	Necrosis	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Marked
	Myocardium	Infiltration Cellular	Mononuclear CI, Marked
	Myocardium	Necrosis	Minimal
		Thrombosis	Mild
	Myocardium	Vacuolization Cytoplasmic	Marked
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Mild
	Serosa	Mesothelioma Malignant	
* Pituitary Gland		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 105	TRT#: 5	SEX: Male	DAY ON TEST: 643
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404225

ORGAN AND ACCOUNTABLE SITE STATUS

		Cyst	Mild
	Pars Distalis	Hyperplasia	Marked
[Hyperplasia TGLS = 2-17]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Skin		Trichoepithelioma	
[Trichoepithelioma TGLS = 1-16]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Heart Thrombosis

CONTRIBUTORY CAUSE OF DEATH

- Brain Hippocampus Necrosis;Brain Thalamus Necrosis;Skin Trichoepithelioma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 371

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0404226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Leukemia Mononuclear	
* Heart		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear Cl, Mild
	Myocardium	Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Mild
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pituitary Gland		Cyst	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 371

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0404226

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-16]

* Thymus

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 107

TRT#: 5

SEX: Male

DAY ON TEST: 453

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Hydrocephalus	Moderate
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
[Adenoma TGLS = 1-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 107	TRT#: 5	SEX: Male	DAY ON TEST: 453
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404227

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 631

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	Multiple
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
		Necrosis	Mild
	[Leukemia Mononuclear TGLS = 1-6+7]		
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 108	TRT#: 5	SEX: Male	DAY ON TEST: 631
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404228

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Mild
		Hyperplasia	Minimal
		Inflammation	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 604

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Mild
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Rhabdomyosarcoma	Metastatic (Skeletal Muscle)
[Rhabdomyosarcoma TGLS = 3-6+7]			
Lymph Node	Deep Cervical	Rhabdomyosarcoma	Metastatic (Skeletal Muscle)
	Mediastinal	Rhabdomyosarcoma	Metastatic (Skeletal Muscle)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 604

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404229

ORGAN AND ACCOUNTABLE SITE STATUS

[Rhabdomyosarcoma TGLS = 2-17]			
[Rhabdomyosarcoma TGLS = 4-18]			
* Lymph Node, Mesenteric		Rhabdomyosarcoma	Metastatic (Skeletal Muscle)
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 5-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
Skeletal Muscle		Rhabdomyosarcoma	
[Rhabdomyosarcoma TGLS = 1-16]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma
 CONTRIBUTORY CAUSE OF DEATH - Skeletal Muscle Rhabdomyosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 110

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 4-8]		
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 2-15]		
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Mild
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 110

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404230

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery		Leukemia Mononuclear	
[Mesothelioma Malignant TGLS = 6-16]		Mesothelioma Malignant	
* Nose	Olfactory Epi	Degeneration	Mild
		Foreign Body	
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[Adenoma TGLS = 5-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
* Seminal Vesicle		Mesothelioma Malignant	Metastatic (Epididymis)
* Spleen		Leukemia Mononuclear	
* Testes	Tunic	Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 1-13]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 111

TRT#: 5

SEX: Male

DAY ON TEST: 719

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Atrophy	Minimal
[Atrophy TGLS = 3-10]			
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
* Liver		Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6+7]			
* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 6-18]			
* Nose	Olfactory Epi	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 111	TRT#: 5	SEX: Male	DAY ON TEST: 719
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404231

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Cyst TGLS = 2-8]		Inflammation Cyst	Mild Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia Inflammation	Minimal Minimal
* Skin	Subcut Tiss Subcut Tiss SOA Dermis	Fibroma Hemangioma Inflammation Leukemia Mononuclear	 Minimal
[Fibroma TGLS = 1-19] [Hemangioma TGLS = 8-16]			
* Spleen [Leukemia Mononuclear TGLS = 5-17]		Leukemia Mononuclear	
* Thymus [Leukemia Mononuclear TGLS = 7-3]		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
		Fatty Change	Mild
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
[Hyperplasia TGLS = 2-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 112	TRT#: 5	SEX: Male	DAY ON TEST: 729
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404232

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 1-16]	Fat	Necrosis	Mild
* Nose	Olfactory Epi	Degeneration Inflammation	Mild Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Skin	SOA Dermis	Inflammation	Minimal
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 704

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Atrophy	Marked
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple

Note: The mass noted in the brain at necropsy was examined microscopically and diagnosed as a pituitary gland neoplasm

[Adenoma TGLS = 2,3-9+16+17]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 113	TRT#: 5	SEX: Male	DAY ON TEST: 704
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404233

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Mild
* Spleen		Atrophy	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404234

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Mixed Cell Focus	
[Hyperplasia TGLS = 2-6+7]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-16]			
* Nose	Olfactory Epi	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 114	TRT#: 5	SEX: Male	DAY ON TEST: 729
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404234

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Inflammation	Mild
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 3-8]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 724

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Mild
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
Penis		Inflammation	Mild
[Inflammation TGLS = 3-16]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 115	TRT#: 5	SEX: Male	DAY ON TEST: 724
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404235

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-8]		Angiectasis	Marked
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 641

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404236

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
		Thrombosis	Marked
	Myocardium	Vacuolization Cytoplasmic	Mild
	[Thrombosis TGLS = 4-11]		
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
		Necrosis	Minimal
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung		Inflammation	Mild
		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-16]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 116	TRT#: 5	SEX: Male	DAY ON TEST: 641
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404236

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration	Moderate
* Pancreas	Acinus	Atrophy	Mild
	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[Adenoma TGLS = 1-8]		
* Preputial Gland		Cyst	Mild
		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-5]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH	- Heart Thrombosis
CONTRIBUTORY CAUSE OF DEATH	- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 670

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404237

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild
* Pancreas	Duct	Cyst	Mild
* Preputial Gland		Adenoma	
		Inflammation	Mild

[Adenoma TGLS = 1-16]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 117	TRT#: 5	SEX: Male	DAY ON TEST: 670
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404237

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	SOA Epidermis	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Preputial Gland Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 682

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-6+7]	
* Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
		[Alveolar/Bronchiolar Adenoma TGLS = 4-4]	
Mesentery	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 118	TRT#: 5	SEX: Male	DAY ON TEST: 682
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404238

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 6-17]			
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland		Cyst	Mild
[Cyst TGLS = 5-16]			
* Preputial Gland		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404239

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Ganglioneuroma	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear Cl, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Thrombosis	Moderate
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung		Inflammation	Moderate
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 119	TRT#: 5	SEX: Male	DAY ON TEST: 729
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404239

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-8]	Pars Distalis	Hyperplasia	Moderate
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Mild
* Spleen		Infarct	Mild
		Leukemia Mononuclear	
[Infarct TGLS = 2-16]			
[Leukemia Mononuclear TGLS = 1-5]			
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 558

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404240

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Pancreas	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Mild
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
		Fatty Change	Mild
		Inflammation	Minimal
		Mixed Cell Focus	
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 558

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404240

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-8]

* Preputial Gland

Hyperplasia

Mild

* Prostate

Hyperplasia

Minimal

Inflammation

Mild

* Spleen

Hematopoietic Cell Proliferation

Mild

* Thymus

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 121	TRT#: 5	SEX: Male	DAY ON TEST: 730
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404241

ORGAN AND ACCOUNTABLE SITE STATUS

		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 596

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404242

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Marked
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
[Adenoma TGLS = 2-8]			
* Preputial Gland		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 122	TRT#: 5	SEX: Male	DAY ON TEST: 596
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404242

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 554

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404243

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
	Myocardium	Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Schwannoma Benign	
* Kidney		Vacuolization Cytoplasmic	Moderate
* Liver	Bile Duct	Nephropathy	Minimal
		Hyperplasia	Mild
	Centrilobular	Leukemia Mononuclear	
		Necrosis	Minimal
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Minimal
		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 3-16]		
* Preputial Gland		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 123	TRT#: 5	SEX: Male	DAY ON TEST: 554
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404243

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 1-5]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 4-13]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 654

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-3+4]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-16]		
* Spleen		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 124	TRT#: 5	SEX: Male	DAY ON TEST: 654
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404244

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2,3-5+17]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 512

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404245

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Atrophy	Moderate
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 1-16]		
* Lung		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 125	TRT#: 5	SEX: Male	DAY ON TEST: 512
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404245

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 2-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Mild
Lymph Node	Deep Cervical	Ectasia	Mild
[Ectasia TGLS = 2-16]			
* Mammary Gland		Hyperplasia	Mild
* Nose	Olfactory Epi	Degeneration	Minimal
		Foreign Body	
		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 126	TRT#: 5	SEX: Male	DAY ON TEST: 729
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404246

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Olfactory Epi Pars Distalis	Metaplasia Adenoma Angiectasis	Respiratory, Mild Multiple Mild
[Adenoma TGLS = 4-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Mild
* Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 3-16]			
* Spleen		Hematopoietic Cell Proliferation Stromal Hyperplasia	Minimal Marked
[Stromal Hyperplasia TGLS = 5-16]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 677

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0404247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Degeneration	Cystic, Mild
		Eosinophilic Focus	
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 127	TRT#: 5	SEX: Male	DAY ON TEST: 677
	DOSE: 150 MG/KG	DISP: Natural Death	HISTO: 0404247

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Testes	Germinal Epith	Atrophy	Mild
[Atrophy TGLS = 1-13]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 720

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hydrocephalus	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-9]		
* Heart		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6+7]		
* Lung		Inflammation	Minimal
		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-16]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 128	TRT#: 5	SEX: Male	DAY ON TEST: 720
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404248

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 8-6]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[Adenoma TGLS = 3-8]			
* Preputial Gland		Cyst	Marked
		Inflammation	Moderate
[Cyst TGLS = 1-16]			
* Prostate		Hyperplasia	Mild
		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-5]			
* Stomach, Forestomach		Inflammation	Moderate
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 6-13]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Mixed Cell Focus	
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Foreign Body	
		Inflammation	Mild
* Preputial Gland		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404249

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-13]		
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 670

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Atrophy	Moderate
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

[Adenoma TGLS = 2-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 130	TRT#: 5	SEX: Male	DAY ON TEST: 670
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404250

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 481

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Carcinoma	Metastatic (Mammary Gland)
	Alveolar Epith	Hyperplasia	Mild
* Mammary Gland		Carcinoma	
	[Carcinoma TGLS = 1-16]		
* Preputial Gland		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 282

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Lung	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 594

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404253

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Leukemia Mononuclear	
		[Hepatodiaphragmatic Nodule TGLS = 3-16]	
		[Leukemia Mononuclear TGLS = 2-6+7]	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
		Cyst	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 133	TRT#: 5	SEX: Male	DAY ON TEST: 594
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404253

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-8]		
* Preputial Gland	Inflammation	Mild
* Prostate	Hyperplasia	Minimal
	Inflammation	Mild
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-16]		
* Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 523

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404254

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Marked
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-8]		
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 523

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404254

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Inflammation	Moderate
* Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404255

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-16]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404255

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404256

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Mild
	Duct	Cyst	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 136	TRT#: 5	SEX: Male	DAY ON TEST: 729
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404256

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 414

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Hemangiosarcoma	
[Hemangiosarcoma TGLS = 1-17]			
* Liver		Inflammation	Minimal
	Centrilobular	Necrosis	Mild
		Necrosis	Mild
[Necrosis TGLS = 3-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Mild
Lymph Node	Deep Cervical	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 4-16]			
* Preputial Gland		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 2-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 414

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404257

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Kidney Hemangiosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 426

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0404258

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Adenoma	
	[Adenoma TGLS = 1-16]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Preputial Gland Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404259

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Bone		Osteosarcoma	
Note: The retrobulbar eye mass noted at necropsy was examined microscopically and diagnosed as a bone neoplasm [Osteosarcoma TGLS = 4-19]			
* Eye	Sclera	Metaplasia	Osseous, Minimal
Note: Both optic nerves were missing			
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
[Hepatodiaphragmatic Nodule TGLS = 2,3-16+17]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 139	TRT#: 5	SEX: Male	DAY ON TEST: 729
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404259

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung	Alveolar Epith	Hyperplasia Inflammation	Minimal Minimal
* Nose	Olfactory Epi	Degeneration Inflammation	Minimal Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia Inflammation	Mild Mild
* Skin	Subcut Tiss	Lipoma	
[Lipoma TGLS = 1-18]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 596

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Fibrosis	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Minimal
		Leukemia Mononuclear	
		[Hepatodiaphragmatic Nodule TGLS = 2-16]	
* Lung		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
		[Adenoma TGLS = 1-13]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 140	TRT#: 5	SEX: Male	DAY ON TEST: 596
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404260

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 714

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0404261

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
		Schwannoma Malignant	Metastatic (Skin)
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Fatty Change	Mild
		Inflammation	Minimal
		Mixed Cell Focus	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
		Angiectasis	Moderate
	[Adenoma TGLS = 2-8]		
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 141	TRT#: 5	SEX: Male	DAY ON TEST: 714
	DOSE: 150 MG/KG	DISP: Natural Death	HISTO: 0404261

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Schwannoma Malignant TGLS = 1-17]	Subcut Tiss	Schwannoma Malignant	
* Spleen		Atrophy	Mild
* Testes	Interstit Cell	Adenoma	
* Thymus [Schwannoma Malignant TGLS = 3-16]		Schwannoma Malignant	Metastatic (Skin)
* Thyroid Gland	C Cell	Adenoma	
* Trachea		Inflammation	Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 610

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404262

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Skin	* Trachea		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart	Myocardium	Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Thrombosis	Mild
* Kidney	Myocardium	Vacuolization Cytoplasmic	Moderate
		Leukemia Mononuclear	
* Liver	Bile Duct	Nephropathy	Minimal
		Hyperplasia	Mild
	Centrilobular	Leukemia Mononuclear	
		Necrosis	Mild
		Thrombosis	Mild
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung		Inflammation	Mild
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Nose	Olfactory Epi	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 142	TRT#: 5	SEX: Male	DAY ON TEST: 610
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404262

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Moderate
		Leukemia Mononuclear	
* Pituitary Gland		Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-16]		
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-13]		
* Thymus		Atrophy	Marked
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 661

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404263

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1,2-16+17]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 143	TRT#: 5	SEX: Male	DAY ON TEST: 661
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404263

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]

* Preputial Gland	Inflammation	Mild
* Prostate	Hyperplasia	Minimal
	Inflammation	Mild
* Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 654

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404264

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
		Thrombosis	Marked
* Kidney	Myocardium	Vacuolization Cytoplasmic	Mild
		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
		Necrosis	Mild
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-16]		
* Nose	Olfactory Epi	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 144	TRT#: 5	SEX: Male	DAY ON TEST: 654
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404264

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-16]			
* Stomach, Forestomach		Inflammation	Marked
		Ulcer	Marked
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 4-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404265

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-16]			
* Pancreas	Acinus	Atrophy	Minimal
	Duct	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 145	TRT#: 5	SEX: Male	DAY ON TEST: 730
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404265

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 4-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404266

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Spleen
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Glands	Cyst	Mild
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

[Adenoma TGLS = 1-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 146	TRT#: 5	SEX: Male	DAY ON TEST: 729
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404266

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 147 TRT#: 5 SEX: Male DAY ON TEST: 680
DOSE: 150 MG/KG DISP: Moribund Sacrifice HISTO: 0404267

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Adenoma	
		Parasite Metazoan	Moderate
[Adenoma TGLS = 3-16]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Skin	Control Dermis	Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 147	TRT#: 5	SEX: Male	DAY ON TEST: 680
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404267

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Hematopoietic Cell Proliferation TGLS = 2-5]		Hematopoietic Cell Proliferation	Minimal
* Testes [Adenoma TGLS = 1-13]	Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Intestine Large, Rectum Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 640

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404268

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone		Osteopetrosis	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Leukemia Mononuclear	
* Liver		Degeneration	Cystic, Minimal
		Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	[Hepatodiaphragmatic Nodule TGLS = 4-16]		
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-3+4]		
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 148	TRT#: 5	SEX: Male	DAY ON TEST: 640
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404268

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Duct Pars Distalis	Cyst Adenoma Angiectasis Cyst	Minimal Minimal Mild
[Adenoma TGLS = 6-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	Bilateral, C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404269

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Mild
		Eosinophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 149	TRT#: 5	SEX: Male	DAY ON TEST: 729
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404269

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]			
* Preputial Gland	Duct	Ectasia Inflammation	Marked Minimal
[Ectasia TGLS = 1-16]			
* Prostate		Hyperplasia Inflammation	Minimal Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma Cyst	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 150	TRT#: 5	SEX: Male	DAY ON TEST: 712
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404270

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Atrophy	Moderate
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Moderate
		Fatty Change	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
	Centrilobular	Necrosis	Mild
* Lung		Inflammation	Minimal
* Nose	Glands	Cyst	Mild
	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 712

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404270

ORGAN AND ACCOUNTABLE SITE STATUS

	Angiectasis	Moderate
	Cyst	Mild
[Adenoma TGLS = 2-8]		
* Preputial Gland	Inflammation	Mild
* Prostate	Hyperplasia	Mild
	Inflammation	Mild
* Spleen	Fibrosis	Minimal
* Stomach, Forestomach	Inflammation	Moderate
* Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 151

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 151	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404271

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-8]	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Mild
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 152

TRT#: 7

SEX: Male

DAY ON TEST: 698

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404272

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Mild
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 1,4-5+16]		
* Liver		Clear Cell Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Necrosis	Mild
	[Hyperplasia TGLS = 3-6+7]		
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 5-16]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 152	TRT#: 7	SEX: Male	DAY ON TEST: 698
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404272

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Marked
[Adenoma TGLS = 6-8]			
* Prostate		Hyperplasia Inflammation	Mild Mild
* Spleen		Atrophy	Mild
* Stomach, Forestomach		Ulcer	Marked
[Ulcer TGLS = 2-6]			
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404273

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Ganglioneuroma	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404273

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-16]	Angiectasis	Marked
* Preputial Gland	Inflammation	Mild
* Prostate	Hyperplasia	Minimal
	Inflammation	Mild
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404274

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Atrophy	Minimal
* Heart		Cardiomyopathy	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Leukemia Mononuclear	
[Hyperplasia TGLS = 2-6+7]			
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 154	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404274

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[Adenoma TGLS = 3-8]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404275

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Mixed Cell Focus	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

[Hyperplasia TGLS = 1-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404275

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland

Inflammation

Mild

* Prostate

Hyperplasia

Minimal

Inflammation

Mild

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Thymus

Atrophy

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 654

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404276

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
* Pancreas	Duct	Cyst	Minimal
* Pituitary Gland		Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate
* Preputial Gland		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 156	TRT#: 7	SEX: Male	DAY ON TEST: 654
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404276

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Salivary Glands		Schwannoma Malignant	
[Schwannoma Malignant TGLS = 1-16]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Salivary Glands Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: bis(2-Chloroethoxy)methane
 CAS Number: 111-91-1

Date Report Requested: 10/22/2014
 Time Report Requested: 00:16:40
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 157

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404277

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Necrosis	Minimal
		[Hepatodiaphragmatic Nodule TGLS = 5-17]	
* Mammary Gland		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
		[Necrosis TGLS = 2-16]	
* Nose	Olfactory Epi	Degeneration	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 157

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404277

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-16]

* Preputial Gland

Inflammation

Mild

* Prostate

Hyperplasia

Mild

Inflammation

Moderate

[Inflammation TGLS = 4-15]

* Seminal Vesicle

Inflammation

Moderate

* Thymus

Atrophy

Marked

* Urinary Bladder

Inflammation

Moderate

[Inflammation TGLS = 3-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 158

TRT#: 7

SEX: Male

DAY ON TEST: 620

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Mixed Cell Focus	
	[Mixed Cell Focus TGLS = 2-6+7]		
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 158	TRT#: 7	SEX: Male	DAY ON TEST: 620
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404278

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Stomach, Forestomach		Inflammation	Moderate
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 159

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404279

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		[Hepatodiaphragmatic Nodule TGLS = 2-16]	
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		[Adenoma TGLS = 3-8]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 159	TRT#: 7	SEX: Male	DAY ON TEST: 730
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404279

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Mild
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-13]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 717

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404280

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Pancreas	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Moderate
			[Nephropathy TGLS = 2-5]
* Liver		Degeneration	Cystic, Mild
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose	Olfactory Epi	Degeneration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
			[Adenoma TGLS = 3-8]
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 160	TRT#: 7	SEX: Male	DAY ON TEST: 717
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404280

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Inflammation	Minimal
		Atrophy	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Moderate
		Ulcer	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Adenoma	
	C Cell	Hyperplasia	Moderate
[Adenoma TGLS = 4-8]			

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 161

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404281

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Islets, Pancreatic		Carcinoma	
Note: The first listed necropsy finding (TGL #2) of pancreatic nodule was examined microscopically and diagnosed as a pancreatic islet neoplasm [Carcinoma TGLS = 2-16]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-16]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 161	TRT#: 7	SEX: Male	DAY ON TEST: 730
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404281

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration Inflammation	Minimal Mild
* Pancreas [Hyperplasia TGLS = 3-16]	Acinus	Hyperplasia	Mild
* Pituitary Gland [Adenoma TGLS = 5-8]	Pars Distalis	Adenoma	
* Preputial Gland		Hyperplasia Inflammation	Moderate Mild
* Prostate		Hyperplasia Inflammation	Minimal Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes [Adenoma TGLS = 1-13]	Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 162

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404282

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Mild
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Moderate
* Preputial Gland		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 162	TRT#: 7	SEX: Male	DAY ON TEST: 730
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404282

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Hyperplasia	Mild
		Inflammation	Minimal
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 163

TRT#: 7

SEX: Male

DAY ON TEST: 715

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404283

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Inflammation	Moderate
		Nephropathy	Moderate
		[Inflammation TGLS = 2-5]	
* Liver		Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		[Hepatodiaphragmatic Nodule TGLS = 4-16]	
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Minimal
* Parathyroid Gland		Hyperplasia	Focal, Mild
* Pituitary Gland		Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 163	TRT#: 7	SEX: Male	DAY ON TEST: 715
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404283

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 7-16]			
* Preputial Gland		Inflammation	Moderate
[Inflammation TGLS = 5-14]			
* Prostate		Hyperplasia	Mild
		Inflammation	Marked
* Seminal Vesicle		Inflammation	Moderate
[Inflammation TGLS = 3-13]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Inflammation	Marked

PRIMARY CAUSE OF DEATH	- Kidney	Inflammation
CONTRIBUTORY CAUSE OF DEATH	- Kidney	Nephropathy

Animal Note: TGL 6 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: bis(2-Chloroethoxy)methane
 CAS Number: 111-91-1

Date Report Requested: 10/22/2014
 Time Report Requested: 00:16:40
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 164 TRT#: 7 SEX: Male DAY ON TEST: 724
 DOSE: 300 MG/KG DISP: Moribund Sacrifice HISTO: 0404284

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Degeneration	Cystic, Minimal
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 164	TRT#: 7	SEX: Male	DAY ON TEST: 724
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404284

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Hyperplasia	Minimal
* Skin	Dermis	Fibroma	
[Fibroma TGLS = 1-16]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 712

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404285

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Eye	Retina	Atrophy	Marked
		Cataract	Marked
	Sclera	Metaplasia	Osseous, Mild
[Cataract TGLS = 1-10]			
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	
		Fatty Change	Mild
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 165	TRT#: 7	SEX: Male	DAY ON TEST: 712
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404285

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Mixed Cell Focus Degeneration Foreign Body Inflammation	Mild Mild
* Pituitary Gland	Olfactory Epi Pars Distalis	Metaplasia Adenoma Angiectasis	Respiratory, Mild Moderate
[Adenoma TGLS = 2-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia Inflammation	Minimal Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Germinal Epith	Mineralization	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 640

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404286

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Mild
		Foreign Body	
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 166	TRT#: 7	SEX: Male	DAY ON TEST: 640
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404286

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 167

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404287

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland		Cyst	Mild
[Cyst TGLS = 2-8]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 167

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404287

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes
[Adenoma TGLS = 1-13]

Interstit Cell

Adenoma

* Thymus

Atrophy

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: bis(2-Chloroethoxy)methane
 CAS Number: 111-91-1

Date Report Requested: 10/22/2014
 Time Report Requested: 00:16:40
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 168 TRT#: 7 SEX: Male DAY ON TEST: 730
 DOSE: 300 MG/KG DISP: Terminal Sacrifice HISTO: 0404288

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
		Schwannoma Benign	
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		[Eosinophilic Focus TGLS = 1-16]	
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Foreign Body	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 168	TRT#: 7	SEX: Male	DAY ON TEST: 730
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404288

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Moderate
	Olfactory Epi	Metaplasia	Respiratory, Moderate
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 3-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 2-16]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 652

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404289

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Nose

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Moderate
		Fibrosis	Marked
	Myocardium	Infiltration Cellular	Mononuclear CI, Marked
	Myocardium	Necrosis	Moderate
	Myocardium	Vacuolization Cytoplasmic	Marked
* Kidney		Nephropathy	Minimal
[Nephropathy TGLS = 2-5]			
* Liver	Centrilobular	Necrosis	Moderate
[Necrosis TGLS = 1-6+7]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 3-16]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-16]			
* Preputial Gland		Hyperplasia	Mild
		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 652

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404289

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Hyperplasia	Minimal
	Inflammation	Minimal
* Spleen	Atrophy	Moderate
* Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH - Heart Myocardium Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 170

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404290

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Minimal
		[Hyperplasia TGLS = 2-16]	
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 170	TRT#: 7	SEX: Male	DAY ON TEST: 730
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404290

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 3-17]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 171

TRT#: 7

SEX: Male

DAY ON TEST: 724

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404291

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Rectum		Adenoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Degeneration	Cystic, Mild
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-6+7]	
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-17]	
Mesentery	Fat	Necrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 171	TRT#: 7	SEX: Male	DAY ON TEST: 724
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404291

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 1-16]			
* Nose	Olfactory Epi	Degeneration	Moderate
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 5-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-16]			
* Stomach, Forestomach		Inflammation	Minimal
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 669

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404292

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Marked
	[Necrosis TGLS = 4-16,5-17]		
* Nose	Olfactory Epi	Degeneration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Preputial Gland		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 172	TRT#: 7	SEX: Male	DAY ON TEST: 669
	DOSE: 300 MG/KG	DISP: Natural Death	HISTO: 0404292

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 3-16]		Leukemia Mononuclear	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 173

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404293

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Retina	Atrophy	Moderate
		Cataract	Moderate
	[Cataract TGLS = 1-10]		
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 173	TRT#: 7	SEX: Male	DAY ON TEST: 730
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404293

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Granulocytic TGLS = 2-5]		Leukemia Granulocytic	
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 174

TRT#: 7

SEX: Male

DAY ON TEST: 544

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404294

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 1-16]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
	Duct	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 174	TRT#: 7	SEX: Male	DAY ON TEST: 544
	DOSE: 300 MG/KG	DISP: Natural Death	HISTO: 0404294

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 2-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 717

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404295

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Brain		Astrocytoma Malignant	
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Marked
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 1-8]			
* Preputial Gland		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 175	TRT#: 7	SEX: Male	DAY ON TEST: 717
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404295

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Hyperplasia	Minimal
	Inflammation	Minimal
* Stomach, Forestomach	Inflammation	Moderate
	Ulcer	Moderate
* Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH	- Brain Astrocytoma Malignant
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 485

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404296

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 2-16]		
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
	[Adenoma TGLS = 1-8]		
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 485

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404296

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Inflammation

Mild

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 177

TRT#: 7

SEX: Male

DAY ON TEST: 682

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404297

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Minimal
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Foreign Body	
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 177	TRT#: 7	SEX: Male	DAY ON TEST: 682
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404297

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-8]

* Preputial Gland	Inflammation	Mild
* Prostate	Inflammation	Mild
* Stomach, Forestomach	Inflammation	Moderate
	Ulcer	Moderate

[Ulcer TGLS = 2-16]

* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 704

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404298

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Mild
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 2-5]		
* Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
	[Hyperplasia TGLS = 1-6+7]		
* Lung		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 178	TRT#: 7	SEX: Male	DAY ON TEST: 704
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404298

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate
[Adenoma TGLS = 3-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia Inflammation	Minimal Mild
* Stomach, Forestomach		Inflammation Ulcer	Moderate Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404299

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
Note: Massons trichrome stain confirmed reported cardiac histology results			
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

[Adenoma TGLS = 1-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 179	TRT#: 7	SEX: Male	DAY ON TEST: 730
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404299

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 180

TRT#: 7

DOSE: 300 MG/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 716

HISTO: 0404300

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 3-17]			
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
		Thrombosis	Marked
	Myocardium	Vacuolization Cytoplasmic	Mild
[Thrombosis TGLS = 7-11]			
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Minimal
		Inflammation	Mild
	Centrilobular	Necrosis	Moderate
[Necrosis TGLS = 5,6-6+7]			
* Mammary Gland		Hyperplasia	Mild
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 4-16]			
* Nose	Olfactory Epi	Degeneration	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 180	TRT#: 7	SEX: Male	DAY ON TEST: 716
	DOSE: 300 MG/KG	DISP: Natural Death	HISTO: 0404300

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 8-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell Tunic	Adenoma	
		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 2-13]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH	- Heart Thrombosis
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404301

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Degeneration	Cystic, Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 181	TRT#: 7	SEX: Male	DAY ON TEST: 730
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404301

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Mild
* Spleen		Atrophy	Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland		Cyst	Mild
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 367

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404302

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Glioma Malignant	
		Hydrocephalus	Marked
	[Glioma Malignant TGLS = 2-9]		
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 1-16]		
* Nose	Olfactory Epi	Degeneration	Moderate
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Brain Glioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 367

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404302

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404303

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear Cl, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
Note: Massons trichrome stain confirmed reported cardiac histology results			
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Mild
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 183	TRT#: 7	SEX: Male	DAY ON TEST: 730
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404303

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Inflammation	Mild
		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-13]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	Multiple
	Follicle	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404304

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Bone	Joint	Inflammation	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
Note: Massons trichrome stain confirmed reported cardiac histology results			
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
		Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal

[Hepatodiaphragmatic Nodule TGLS = 3-16]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 184	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404304

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	Minimal
	Pars Distalis	Hyperplasia	Moderate
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
	[Hematopoietic Cell Proliferation TGLS = 2-5]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-13]		
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 719

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Brain	Hypothalamus	Compression	Mild
* Heart		Cardiomyopathy	Moderate
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Fibrosis	Moderate
		Nephropathy	Mild
		[Nephropathy TGLS = 2-5]	
* Liver		Fatty Change	Mild
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		[Hyperplasia TGLS = 1-6+7]	
Lymph Node	Deep Cervical	Hyperplasia	Lymphoid, Mild
		[Hyperplasia TGLS = 4-16]	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 185	TRT#: 7	SEX: Male	DAY ON TEST: 719
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404305

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Mild
		Inflammation	Mild
* Stomach, Forestomach		Inflammation	Moderate
		Ulcer	Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 3-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 719

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Fatty Change	Mild
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
[Hyperplasia TGLS = 3-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-16]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Foreign Body	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 186	TRT#: 7	SEX: Male	DAY ON TEST: 719
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404306

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Inflammation	Mild
* Preputial Gland		Hyperplasia	Mild
* Stomach, Forestomach		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Inflammation	Minimal
[Adenoma TGLS = 1,2-16]		Adenoma	
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 565

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404307

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Harderian Gland		Atrophy	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		[Hyperplasia TGLS = 1-6+7]	
* Lung		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pancreas	Duct	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 187	TRT#: 7	SEX: Male	DAY ON TEST: 565
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404307

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
[Adenoma TGLS = 3-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: TGL 2 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404308

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Epididymis		Inflammation	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
Note: Massons trichrome stain confirmed reported cardiac histology results			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Mild
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 188	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404308

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-16]			
* Thymus		Atrophy	Marked
		Ectopic Thyroid	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404309

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Mild
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Moderate
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
Note: Massons trichrome stain confirmed reported cardiac histology results			
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Mild
		Eosinophilic Focus	
		Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 189 **TRT#:** 7 **SEX:** Male **DAY ON TEST:** 730
DOSE: 300 MG/KG **DISP:** Terminal Sacrifice **HISTO:** 0404309

ORGAN AND ACCOUNTABLE SITE STATUS

Bile Duct		Hyperplasia Inflammation Leukemia Mononuclear	Moderate Minimal
[Eosinophilic Focus TGLS = 7-17]			
[Hepatodiaphragmatic Nodule TGLS = 6-16]			
[Leukemia Mononuclear TGLS = 5-6+7]			
* Lung		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-16]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate
[Adenoma TGLS = 1-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia Inflammation	Minimal Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 3-13]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell Follicle	Adenoma Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 190

TRT#: 7

SEX: Male

DAY ON TEST: 647

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404310

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 2-16]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Duct	Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 190	TRT#: 7	SEX: Male	DAY ON TEST: 647
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404310

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-8]		Angiectasis	Moderate
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Mild
		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404311

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Angiectasis	Moderate
		Hyperplasia	Mild
		Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 2-8]		
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 191	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404311

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Inflammation	Minimal
* Pituitary Gland		Hyperplasia	Minimal
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Moderate
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-13]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404312

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Adenoma	
		Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 2-16]		
* Lung		Inflammation	Minimal
* Nose	Glands	Cyst	Minimal
	Olfactory Epi	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 192	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404312

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[Adenoma TGLS = 3-8]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404313

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[Adenoma TGLS = 2-8]		
* Preputial Gland		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 193	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404313

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-13]		
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 712

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
		Thrombosis	Marked
	Myocardium	Vacuolization Cytoplasmic	Moderate
	[Thrombosis TGLS = 4-11]		
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
	Centrilobular	Necrosis	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Angiectasis	Minimal
		Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 194	TRT#: 7	SEX: Male	DAY ON TEST: 712
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404314

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Hyperplasia	Minimal
* Skin		Trichoepithelioma	
	[Trichoepithelioma TGLS = 1-17]		
* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Moderate
	[Fibrosis TGLS = 3-16]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-13]		
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH	- Heart Thrombosis
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 719

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404315

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Cyst	Minimal
		Degeneration	Cystic, Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung		Hemangiosarcoma	Metastatic (Spleen)
		Inflammation	Minimal
		[Hemangiosarcoma TGLS = 4-3+4]	
* Mammary Gland		Fibroadenoma	

Note: The dermal mass described at necropsy was examined microscopically and diagnosed as a mammary gland neoplasm

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 195	TRT#: 7	SEX: Male	DAY ON TEST: 719
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404315

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-17]			
* Nose	Olfactory Epi	Degeneration	Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 5-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Marked
[Hemangiosarcoma TGLS = 3-16]			
* Stomach, Forestomach		Inflammation	Moderate
		Ulcer	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-13]			
* Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Spleen Hemangiosarcoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404316

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Mild
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 2-16]		
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 196	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404316

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-13]		
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 423

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404317

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Mammary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-9]			
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Necrosis	Moderate
[Leukemia Mononuclear TGLS = 2-6+7]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Nose	Olfactory Epi	Degeneration	Marked
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Angiectasis	Moderate
[Angiectasis TGLS = 3-16]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 197	TRT#: 7	SEX: Male	DAY ON TEST: 423
	DOSE: 300 MG/KG	DISP: Natural Death	HISTO: 0404317

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Inflammation	Minimal
* Spleen [Leukemia Mononuclear TGLS = 1-5]	Leukemia Mononuclear	
* Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 677

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404318

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Angiectasis	Moderate
		Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 4-8]		
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
		Thrombosis	Mild
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Small, Duodenum		Inflammation	Moderate
		Ulcer	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	[Leukemia Mononuclear TGLS = 3-6+7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 677

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404318

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: The thymic enlargement noted at necropsy was examined microscopically and diagnosed as a mediastinal lymph node neoplasm			
[Leukemia Mononuclear TGLS = 5-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-6]			
* Nose		Inflammation	Mild
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[Adenoma TGLS = 6-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Stomach, Forestomach		Inflammation	Moderate
[Inflammation TGLS = 8-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Mineralization	Mild
[Adenoma TGLS = 1-13]			
[Mineralization TGLS = 1-13]			
* Thymus		Atrophy	Marked
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
<hr/>			
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404319

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404319

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Mild
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-13]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404320

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear Cl, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Leukemia Mononuclear	
		Leukemia Mononuclear	
Lymph Node	Mediastinal		
[Leukemia Mononuclear TGLS = 4-17]			
* Nose	Olfactory Epi	Degeneration	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Intermed	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 200	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404320

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Pars Distalis	Cyst Hyperplasia Adenoma Inflammation	Minimal Mild Moderate
[Adenoma TGLS = 1-16]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-13]			

PRIMARY CAUSE OF DEATH

-

Animal Note: The thymic enlargement noted at necropsy was examined microscopically and diagnosed as a mediastinal lymph node neoplasm

Animal Note: TGL 2 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 201

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0404321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Moderate
	[Vacuolization Cytoplasmic TGLS = 7-8]		
* Adrenal Medulla		Pheochromocytoma Benign	
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
	Note: Massons trichrome stain confirmed reported cardiac histology results		
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Periportal	Cytoplasmic Alteration	Mild
		Fatty Change	Minimal
		Inflammation	Minimal
	[Cytoplasmic Alteration TGLS = 4-6+7]		
* Lung		Inflammation	Mild
		Thrombosis	Mild
* Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 201	TRT#: 2	SEX: Female	DAY ON TEST: 730
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404321

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-15]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3,5,8-16+17+18]			
* Ovary		Cyst	Mild
[Cyst TGLS = 2-13]			
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate
[Adenoma TGLS = 6-8]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 202

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 614
HISTO: 0404322

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Mild
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
	Centrilobular	Necrosis	Moderate
	[Necrosis TGLS = 1,2-6+7]		
* Lung	Alveolar Epith	Hyperplasia	Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 3-15]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLS = 4-15]		
* Spleen		Atrophy	Mild
* Stomach, Glandular		Ulcer	Minimal
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 202

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 614
HISTO: 0404322

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland
* Uterus

C Cell

Hyperplasia
Polyp Stromal

Mild

PRIMARY CAUSE OF DEATH

- Liver Centrilobular Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 203

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404323

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
Note: Massons trichrome stain confirmed reported cardiac histology results			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Minimal
* Pituitary Gland		Angiectasis	Mild
		Cyst	Minimal
	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 203

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404323

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 204

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 718
HISTO: 0404324

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Clitoral Gland		Inflammation	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Inflammation	Minimal
		Necrosis	Minimal
* Lung		Inflammation	Minimal
* Pancreas	Duct	Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

[Adenoma TGLS = 2-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 204	TRT#: 2	SEX: Female	DAY ON TEST: 718
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404324

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-13]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 205

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 580
HISTO: 0404325

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Minimal
* Heart		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung		Inflammation	Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Minimal
		[Hyperplasia TGLS = 2-15]	
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
		[Adenoma TGLS = 1-8]	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 205	TRT#: 2	SEX: Female	DAY ON TEST: 580
	DOSE: 0 MG/KG	DISP: Natural Death	HISTO: 0404325

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 206

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 529

HISTO: 0404326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
	Myocardium	Fibrosis	Minimal
		Infiltration Cellular	Mononuclear Cl, Minimal
	Myocardium	Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Mild
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4,5-6+7+16]	
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2-15]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-16]	
* Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 206	TRT#: 2	SEX: Female	DAY ON TEST: 529
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404326

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Cyst	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-15]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Moderate
		Leukemia Mononuclear	
* Stomach, Glandular		Inflammation	Mild
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-17]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 207

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 703
HISTO: 0404327

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Marked
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
	[Adenoma TGLS = 1-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 207

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 703
HISTO: 0404327

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 208

TRT#: 2

SEX: Female

DAY ON TEST: 721

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 0404328

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
		Vacuolization Cytoplasmic	Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 4-15]		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[Adenoma TGLS = 1-15]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-5]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 208

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 721
HISTO: 0404328

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 209

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 0404329

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Clitoral Gland		Adenoma	
		Inflammation	Minimal
	[Adenoma TGLS = 1-14]		
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
	Note: Massons trichrome stain confirmed reported cardiac histology results		
* Islets, Pancreatic		Carcinoma	
	Note: The pancreatic mass noted at necropsy was examined microscopically and diagnosed as a neoplasm of the pancreatic islets		
	[Carcinoma TGLS = 4-15]		
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 209	TRT#: 2	SEX: Female	DAY ON TEST: 731
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404329

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland [Fibroadenoma TGLS = 2-16]		Fibroadenoma	
* Nose	Olfactory Epi	Degeneration Inflammation	Minimal Minimal
* Ovary [Cyst TGLS = 3-13]		Cyst	Mild
* Pituitary Gland [Adenoma TGLS = 6-15]	Pars Distalis	Adenoma Angiectasis	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 210

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 0404330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
Note: Massons trichrome stain confirmed reported cardiac histology results			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-15]			
* Pituitary Gland		Angiectasis	Mild
		Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 2-15]			
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 210

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 0404330

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 211

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 686
HISTO: 0404331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Clitoral Gland		Inflammation	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[Adenoma TGLS = 1-8]		
* Skin	SOA Dermis	Fibrosis	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 211

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 686
HISTO: 0404331

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 212

TRT#: 2

SEX: Female

DAY ON TEST: 546

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404332

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Atrophy	Mild
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Clitoral Gland		Inflammation	Minimal
* Heart		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Moderate
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-15]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-16]			
* Pancreas	Acinus	Atrophy	Minimal
	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 212	TRT#: 2	SEX: Female	DAY ON TEST: 546
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404332

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]			
* Spleen		Atrophy	Mild
* Stomach, Forestomach		Inflammation	Moderate
		Ulcer	Moderate
[Ulcer TGLS = 4-16]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 213

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 511
HISTO: 0404333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral GI			
Note: No corresponding microscopic finding for clitoral gland nodule noted at tissue trim			
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-15+16]			
* Pituitary Gland		Cyst	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 214

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 519
HISTO: 0404334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-9]			
* Heart		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 3-15]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Stomach, Forestomach		Inflammation	Mild
		Ulcer	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 214

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 519
HISTO: 0404334

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 5-15]

* Thymus

Atrophy

Moderate

* Uterus

Atrophy

Mild

[Atrophy TGLS = 1-13]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 215

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 668

HISTO: 0404335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Trachea	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-9]			
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6+7]			
* Lung		Leukemia Mononuclear	
Oral Mucosa		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 5-16]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 2-13]			
* Pancreas	Acinus	Atrophy	Mild
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 215	TRT#: 2	SEX: Female	DAY ON TEST: 668
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404335

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-15]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-3]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-5]			

PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 216

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 0404336

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
Note: Massons trichrome stain confirmed reported cardiac histology results			
* Liver		Angiectasis	Minimal
		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 1-15]	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Intermed	Adenoma	
		Cyst	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 216

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 0404336

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 217

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0404337

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Bone Marrow		Histiocytic Sarcoma	
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
		[Hepatodiaphragmatic Nodule TGLS = 5-17]	
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
		[Fibroadenoma TGLS = 1,2-15+16]	
Mesentery	Fat	Necrosis	Marked
		[Necrosis TGLS = 3-17]	
* Ovary		Cyst	Mild
		[Cyst TGLS = 4-13]	
* Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 217	TRT#: 2	SEX: Female	DAY ON TEST: 731
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404337

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 6-8]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 218

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 0404338

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Minimal
		Leukemia Mononuclear	
		[Basophilic Focus TGLS = 1-6+7]	
* Lung		Leukemia Mononuclear	
* Nose		Inflammation	Minimal
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 218

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404338

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 219

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 0404339

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Atrophy	Mild
* Clitoral Gland		Inflammation	Minimal
* Harderian Gland		Inflammation	Minimal
* Heart		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
		Necrosis	Mild
Mesentery	Fat		
[Necrosis TGLS = 2,3-15+16]			
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Minimal
		Cyst	Moderate
[Adenoma TGLS = 1-8]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 219	TRT#: 2	SEX: Female	DAY ON TEST: 730
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404339

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 220

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 0404340

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular * Thymus

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-15]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-16]			
* Pituitary Gland		Cyst	Mild
	Pars Intermed	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 220

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404340

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 221

TRT#: 2

SEX: Female

DAY ON TEST: 672

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 0404341

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
		Sarcoma	
	[Sarcoma TGLS = 3-16]		
* Liver		Basophilic Focus	
		Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 2-15]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-15]		
* Pituitary Gland		Cyst	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 221	TRT#: 2	SEX: Female	DAY ON TEST: 672
	DOSE: 0 MG/KG	DISP: Natural Death	HISTO: 0404341

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	- Kidney Sarcoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 222

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 694
HISTO: 0404342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
		Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 3-16]		
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1,2-15+16]		
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 222	TRT#: 2	SEX: Female	DAY ON TEST: 694
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404342

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 223

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 571
HISTO: 0404343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Heart		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
		Thrombosis	Moderate
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
		Necrosis	Minimal
	[Leukemia Mononuclear TGLS = 1-6+7]		
* Lung		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[Adenoma TGLS = 2-8]		
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Inflammation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 223	TRT#: 2	SEX: Female	DAY ON TEST: 571
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404343

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Ulcer	Marked
* Thyroid Gland		Atrophy	Marked
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 224

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 0404344

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Retina	Atrophy	Moderate
		Cataract	Moderate
[Cataract TGLS = 3-10]			
* Heart	Myocardium	Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-15+16]			
* Pituitary Gland		Cyst	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Inflammation	Suppurative, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 225

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404345

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Angiectasis	Moderate
* Clitoral Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Inflammation	Minimal
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-7+16]	
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
		[Necrosis TGLS = 2-16]	
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland		Angiectasis	Mild
		Cyst	Mild
	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 225	TRT#: 2	SEX: Female	DAY ON TEST: 731
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404345

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 4-8]			
* Skin	Subcut Tiss	Fibroma	
Note: The mammary gland mass described at necropsy was examined microscopically and diagnosed as a dermal neoplasm			
[Fibroma TGLS = 1-15]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Carcinoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 226

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 723

HISTO: 0404346

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Brain	Hypothalamus	Compression	Mild
		Hydrocephalus	Moderate
* Clitoral Gland		Cyst	Mild
		Inflammation	Mild
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Inflammation	Minimal
* Ovary		Granulosa Cell Tumor Malignant	
	[Granulosa Cell Tumor Malignant TGLS = 1-15]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 226	TRT#: 2	SEX: Female	DAY ON TEST: 723
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404346

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-8]		Angiectasis	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	Bilateral, C Cell	Adenoma	
[Adenoma TGLS = 3-8]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-16]			

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Ovary Granulosa Cell Tumor Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 227

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 479

HISTO: 0404347

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Moderate
		Necrosis	Moderate
		[Necrosis TGLS = 1,2-15+16]	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 228

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 0404348

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 5-15]		
	[Leukemia Mononuclear TGLS = 4-6+7]		
* Lung		Inflammation	Minimal
		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland		Angiectasis	Mild
		Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLS = 2-8]		
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 228

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 0404348

ORGAN AND ACCOUNTABLE SITE STATUS

Note: The mammary gland mass described at necropsy was examined microscopically and diagnosed as a dermal neoplasm
[Fibroma TGLS = 1-16]

* Spleen [Leukemia Mononuclear TGLS = 3-15] Leukemia Mononuclear

* Thymus Atrophy Marked

* Uterus Endometrium Hyperplasia Cystic, Minimal
Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 229

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 581
HISTO: 0404349

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Clitoral Gland		Inflammation	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
		Atrophy	Mild
	[Adenoma TGLS = 1-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 229

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 581
HISTO: 0404349

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 230

TRT#: 2

SEX: Female

DAY ON TEST: 603

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Basophilic Focus	
		Inflammation	Minimal
		Mixed Cell Focus	
* Mammary Gland		Fibroadenoma	
		Inflammation	Minimal
	[Fibroadenoma TGLS = 1-15]		
* Pancreas	Acinus	Atrophy	Mild
	Duct	Cyst	Mild
* Pituitary Gland		Cyst	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 230

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 603
HISTO: 0404350

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 231

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 532
HISTO: 0404351

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland was missing			
* Adren Medulla			
Note: One adrenal gland was missing			
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Basophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6+7]			
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 231	TRT#: 2	SEX: Female	DAY ON TEST: 532
	DOSE: 0 MG/KG	DISP: Natural Death	HISTO: 0404351

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 1-15]		Leukemia Mononuclear	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 232

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 0404352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 4-15]		
* Mammary Gland		Fibroadenoma	
	Note: The clitoral gland mass described at necropsy was examined microscopically and diagnosed as a mammary gland neoplasm		
	[Fibroadenoma TGLS = 2-14]		
* Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 232	TRT#: 2	SEX: Female	DAY ON TEST: 731
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404352

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 3-8]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Cervix, Myometrium	Hyperplasia	Moderate
[Hyperplasia TGLS = 1-15]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 233

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 0404353

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Minimal
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
	[Basophilic Focus TGLS = 2-15]		
* Lung		Inflammation	Minimal
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[Adenoma TGLS = 3-8]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 233

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 0404353

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

[Polyp Stromal TGLS = 1-13]

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 234

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 539

HISTO: 0404354

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone	Joint	Inflammation	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hemorrhage	Moderate
		Hydrocephalus	Marked
			[Hemorrhage TGLS = 5-9]
* Clitoral Gland		Hyperplasia	Moderate
		Inflammation	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Carcinoma	
			[Carcinoma TGLS = 3-16]
Mesentery	Fat	Necrosis	Mild
			[Necrosis TGLS = 2-15]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 234	TRT#: 2	SEX: Female	DAY ON TEST: 539
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404354

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
[Adenoma TGLS = 4-8]			
* Spleen		Atrophy	Minimal
[Atrophy TGLS = 1-5]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 235

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 694
HISTO: 0404355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression Hydrocephalus Hyperplasia	Marked Moderate Moderate
* Clitoral Gland [Hyperplasia TGLS = 3-14]			
* Esophagus [Lipoma TGLS = 1-15]	Periesoph Tiss	Lipoma	
* Heart		Cardiomyopathy Fibrosis	Minimal Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Inflammation	Minimal
* Pituitary Gland [Adenoma TGLS = 2-8]	Pars Distalis	Adenoma Angiectasis	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 235

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 694
HISTO: 0404355

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 236

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 605
HISTO: 0404356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Mild
* Heart		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear Cl, Minimal
	Myocardium	Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Intestine Large, Rectum		Ulcer	Mild
* Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung		Leukemia Mononuclear	
* Pancreas	Duct	Cyst	Mild
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLS = 4-15]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-16]		
* Stomach, Forestomach		Inflammation	Moderate
* Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 236	TRT#: 2	SEX: Female	DAY ON TEST: 605
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404356

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-3]

* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 237

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 597
HISTO: 0404357

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Moderate
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Inflammation	Minimal
* Lung		Congestion	Mild
		[Congestion TGLS = 2-3+4]	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
		[Adenoma TGLS = 1-8]	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 238

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 616

HISTO: 0404358

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
	[Vacuolization Cytoplasmic TGLS = 5-8]		
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Mild
* Eye	Retina	Atrophy	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
* Kidney	Renal Tubule	Vacuolization Cytoplasmic	Moderate
		Cyst	Mild
		Leukemia Mononuclear	
		Nephropathy	Minimal
	[Cyst TGLS = 4-15]		
* Liver		Fatty Change	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 238

TRT#: 2

SEX: Female

DAY ON TEST: 616

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404358

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland

Fibroadenoma

Note: The dermal mass described at necropsy was examined microscopically and diagnosed as a mammary gland neoplasm

[Fibroadenoma TGLS = 1-16]

* Pituitary Gland

Pars Distalis

Adenoma

Angiectasis

Moderate

[Adenoma TGLS = 6-8]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-15]

* Stomach, Forestomach

Inflammation

Marked

Ulcer

Marked

* Stomach, Glandular

Inflammation

Mild

* Thymus

Atrophy

Marked

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 239

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0404359

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Adenoma	
		Inflammation	Moderate
[Adenoma TGLS = 1-15]			
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
[Basophilic Focus TGLS = 2-15]			
* Lung		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Mild
[Adenoma TGLS = 3-8]			
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 239	TRT#: 2	SEX: Female	DAY ON TEST: 731
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404359

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 240

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 709
HISTO: 0404360

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Brain	Hypothalamus	Compression	Moderate
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 1-15]		
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
		Cyst	Mild
	[Adenoma TGLS = 2-8]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 240

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 709
HISTO: 0404360

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 241

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 582
HISTO: 0404361

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Coron Artery	Inflammation	Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 1-6]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-15]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 242

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404362

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Minimal
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Foreign Body	
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
		Angiectasis	Marked

[Adenoma TGLS = 1-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 242	TRT#: 2	SEX: Female	DAY ON TEST: 731
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404362

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 243

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 0404363

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 1-15]	
* Pituitary Gland		Cyst	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 243

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 0404363

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 244

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 683
HISTO: 0404364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Intestine Large, Rectum		Adenoma	
		[Adenoma TGLS = 3-16]	
* Kidney		Hydronephrosis	Moderate
		[Hydronephrosis TGLS = 2-5]	
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland		Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Adenoma	
	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 244	TRT#: 2	SEX: Female	DAY ON TEST: 683
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404364

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder	Inflammation	Moderate
* Uterus	Sarcoma Stromal	

[Sarcoma Stromal TGLS = 1-15]

PRIMARY CAUSE OF DEATH	- Uterus Sarcoma Stromal
CONTRIBUTORY CAUSE OF DEATH	- Intestine Large;Rectum Adenoma;Kidney Hydronephrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 245

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 683
HISTO: 0404365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Mild
* Clitoral Gland		Inflammation	Mild
* Heart		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear Cl, Mild
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Mild
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-15]	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 245	TRT#: 2	SEX: Female	DAY ON TEST: 683
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404365

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Angiectasis	Moderate
	Pars Distalis	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-15]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-3]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 246

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404366

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Small, Duodenum		Ulcer	Marked
[Ulcer TGLS = 4-16]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
Lymph Node	Pancreatic	Ectasia	Moderate
	Pancreatic	Hyperplasia	Lymphoid, Moderate
Note: The cysts noted at necropsy in the pancreas were examined microscopically and diagnosed as ectatic pancreatic lymph nodes [Ectasia TGLS = 5-15] [Hyperplasia TGLS = 6-15]			
* Mammary Gland		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 246	TRT#: 2	SEX: Female	DAY ON TEST: 731
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404366

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1-16]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-15]			
* Nose		Inflammation	Mild
* Pancreas	Acinus	Hyperplasia	Mild
		Inflammation	Moderate
Note: The pancreas mass and cysts noted at necr were examined microscopically and diagnosed as duodenal ulcer and ectatic sinusoids of pancr lymph node, respectively			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 2-8]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 247

TRT#: 2

SEX: Female

DAY ON TEST: 469

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 0404367

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-15]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 2-8]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 248

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 39
HISTO: 0404368

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye
Note: Both optic nerves were missing

* Heart	Myocardium	Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
		Vacuolization Cytoplasmic	Minimal
	Note: Special stain battery (HandE, GMS, MTrichr, and MPtchr) confirmed reported cardiac histologic findings		
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 249

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 0404369

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Minimal
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 1-15]		
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 2-15]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Angiectasis	Minimal
		Cyst	Mild
	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 249	TRT#: 2	SEX: Female	DAY ON TEST: 730
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404369

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	SOA Dermis	Fibrosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL 3 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 250

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 553
HISTO: 0404370

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Nose

OBSERVATIONS

* Brain		Oligodendroglioma Malignant	
	[Oligodendroglioma Malignant TGLS = 3-9]		
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Minimal
* Ovary		Cyst	Moderate
	[Cyst TGLS = 2-13]		
* Skin	SOA Dermis	Fibrosis	Minimal
	Control Epider	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 250

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 553
HISTO: 0404370

ORGAN AND ACCOUNTABLE SITE STATUS

SOA Epidermis	Hyperplasia	Mild
Control Dermis	Inflammation	Mild
SOA Epidermis	Ulcer	Mild
[Ulcer TGLS = 1-15]		
* Spleen	Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH - Brain Oligodendroglioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 251

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404371

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Nose

OBSERVATIONS

* Brain		Hydrocephalus	Mild
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Pancreas		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
		Angiectasis	Moderate
	[Adenoma TGLS = 1-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 251

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404371

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 252

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404372

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Moderate
* Eye	Retina	Atrophy	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Basophilic Focus	
	Bile Duct	Cyst	Mild
		Inflammation	Minimal
		Inflammation	Minimal
		Atrophy	Mild
* Lung	Acinus	Angiectasis	Minimal
* Pancreas		Cyst	Mild
* Pituitary Gland		Hyperplasia	Minimal
	Pars Distalis		
		Hematopoietic Cell Proliferation	Minimal
* Spleen		Atrophy	Marked
* Thymus			
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 252

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404372

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 253

TRT#: 4

SEX: Female

DAY ON TEST: 595

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404373

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear Cl, Minimal
	Myocardium	Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Leukemia Mononuclear	
* Liver		Fatty Change	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Marked
	[Necrosis TGLS = 3-17]		
* Pituitary Gland		Angiectasis	Mild
		Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 253	TRT#: 4	SEX: Female	DAY ON TEST: 595
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404373

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-15]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Moderate
		Ulcer	Moderate
[Ulcer TGLS = 5-16]			
* Stomach, Glandular		Ulcer	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 254

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404374

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Parasite Metazoan	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Degeneration	Cystic, Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 3-6+7]			
* Lung	Bronchus	Hyperplasia	Mild
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-15]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 254	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404374

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 4-8]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 255

TRT#: 4

SEX: Female

DAY ON TEST: 606

DOSE: 75 MG/KG

DISP: Natural Death

HISTO: 0404375

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Complex	
[Pheochromocytoma Complex TGLS = 2-16]			
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-15]			
* Nose	Olfactory Epi	Degeneration	Mild
		Foreign Body	
		Inflammation	Mild
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 255

TRT#: 4

SEX: Female

DAY ON TEST: 606

DOSE: 75 MG/KG

DISP: Natural Death

HISTO: 0404375

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 256

TRT#: 4

SEX: Female

DAY ON TEST: 586

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404376

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Minimal
* Pancreas	Duct	Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
		[Adenoma TGLS = 1-8]	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 256

TRT#: 4

SEX: Female

DAY ON TEST: 586

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404376

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 257

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404377

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
		Schwannoma Benign	
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
		Angiectasis	Mild
	[Adenoma TGLS = 1,2-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 3-15]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 257

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404377

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 258

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404378

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Mild
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Minimal
		Mixed Cell Focus	
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
		Angiectasis	Mild
		Cyst	Mild
	Pars Distalis	Hyperplasia	Minimal

[Adenoma TGLS = 1-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 258	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404378

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 259

TRT#: 4

DOSE: 75 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0404379

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain	Vein	Infiltration Cellular	Mononuclear CI, Mild
	Hippocampus	Necrosis	Mild
* Clitoral Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 259	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404379

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-16]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 260

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404380

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
Lacrimal Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 3-15]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-16]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Angiectasis	Mild
		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 260	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404380

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-8]	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Cervix, Endometrium	Hyperplasia	Moderate
	Endometrium	Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-15]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 261

TRT#: 4

SEX: Female

DAY ON TEST: 624

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404381

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Minimal
* Eye	Retina	Atrophy	Moderate
		Cataract	Moderate
	[Cataract TGLS = 2-10]		
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
		Thrombosis	Moderate
	Myocardium	Vacuolization Cytoplasmic	Mild
	[Thrombosis TGLS = 7-11+12]		
* Liver		Basophilic Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
	Centrilobular	Necrosis	Moderate
	[Necrosis TGLS = 5-6+7]		
* Mammary Gland		Fibroadenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 261	TRT#: 4	SEX: Female	DAY ON TEST: 624
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404381

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1,4-15+16]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 6-17]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 3-8]			
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Ulcer	Moderate
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Heart Thrombosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 262

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404382

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
		Inflammation	Mild
	[Adenoma TGLS = 1-15]		
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
	[Hyperplasia TGLS = 2-6+7]		
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 262	TRT#: 4	SEX: Female	DAY ON TEST: 731
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404382

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]

* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 263

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404383

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
		Hyperplasia	Mild
		Inflammation	Mild
[Adenoma TGLS = 1-15]			
* Harderian Gland	Capillary	Hyperplasia	Minimal
		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
[Basophilic Focus TGLS = 3-17]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Ovary		Cyst	Mild
[Cyst TGLS = 2-16]			
* Pituitary Gland		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 263	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404383

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Cyst	Minimal
		Hyperplasia	Mild
[Hyperplasia TGLS = 4-8]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 264

TRT#: 4

SEX: Female

DAY ON TEST: 683

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404384

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-15]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-17]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 264	TRT#: 4	SEX: Female	DAY ON TEST: 683
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404384

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Adenoma	
[Adenoma TGLS = 2-16]			

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 265

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404385

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Clitoral Gland		Adenoma	
		Inflammation	Minimal
[Adenoma TGLS = 2-16]			
* Heart		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-15]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Angiectasis	Mild
		Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 3-8]			
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 265	TRT#: 4	SEX: Female	DAY ON TEST: 731
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404385

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Trachea	Glands	Cyst	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 266

TRT#: 4

SEX: Female

DAY ON TEST: 388

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404386

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
		Necrosis	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 1-15]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
	[Adenoma TGLS = 2-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 266

TRT#: 4

SEX: Female

DAY ON TEST: 388

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404386

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 267

TRT#: 4

SEX: Female

DAY ON TEST: 711

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404387

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Mild
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Pancreas	Duct	Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[Adenoma TGLS = 2-8]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-5]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 267	TRT#: 4	SEX: Female	DAY ON TEST: 711
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404387

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 268

TRT#: 4

SEX: Female

DAY ON TEST: 532

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404388

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-15]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 269

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404389

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Inflammation	Minimal
[Basophilic Focus TGLS = 3-6+7]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 269	TRT#: 4	SEX: Female	DAY ON TEST: 731
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404389

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-8]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	Multiple
	C Cell	Hyperplasia	Minimal
	Follicle	Hyperplasia	Mild
* Uterus		Sarcoma Stromal	

Note: The vaginal mass described at necropsy was examined microscopically and diagnosed as a uterine neoplasm

[Sarcoma Stromal TGLS = 2-16]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 270

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404390

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Brain		Hydrocephalus	Mild
* Clitoral Gland		Inflammation	Minimal
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
		[Fibroadenoma TGLS = 1,2-15+16]	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 270	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404390

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]		Angiectasis	Marked
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 271

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404391

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Ovary		Cyst	Minimal
[Cyst TGLS = 1-13]			
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 272

TRT#: 4

SEX: Female

DAY ON TEST: 592

DOSE: 75 MG/KG

DISP: Natural Death

HISTO: 0404392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Eye	Retina	Atrophy	Moderate
		Cataract	Moderate
	[Cataract TGLS = 1-10]		
* Harderian Gland		Inflammation	Minimal
* Heart		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
	Mesentery	Necrosis	Moderate
	[Necrosis TGLS = 2-15]		
* Ovary		Atrophy	Marked
* Pituitary Gland		Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 272	TRT#: 4	SEX: Female	DAY ON TEST: 592
	DOSE: 75 MG/KG	DISP: Natural Death	HISTO: 0404392

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus	Atrophy	Moderate
PRIMARY CAUSE OF DEATH	- UNCERTAIN	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 273

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404393

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Parasite Metazoan	Marked
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
	[Basophilic Focus TGLS = 1-6+7]		
* Lung		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland		Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
	[Hyperplasia TGLS = 2-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 273

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404393

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 274

TRT#: 4

SEX: Female

DAY ON TEST: 714

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 2-15]		
* Lung		Inflammation	Minimal
* Ovary		Cyst	Mild
	[Cyst TGLS = 1-13]		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
		Cyst	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 274	TRT#: 4	SEX: Female	DAY ON TEST: 714
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404394

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-8]	Pars Distalis	Hyperplasia	Moderate
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Adenoma	
	C Cell	Hyperplasia	Mild
[Adenoma TGLS = 3-15]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 275

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404395

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 3-16]		
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-15]		
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Mild
	[Adenoma TGLS = 4-8]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 275	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404395

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-16]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 276

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404396

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Clitoral Gland		Inflammation	Minimal
* Heart		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
	[Adenoma TGLS = 2-8]		
* Skin	Subcut Tiss	Fibrosarcoma	
	[Fibrosarcoma TGLS = 1-15]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 276

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404396

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 277

TRT#: 4

SEX: Female

DAY ON TEST: 653

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404397

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Clitoral Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
		Mixed Cell Focus	
Lymph Node	Mediastinal	Ectasia	Moderate
[Ectasia TGLS = 3-16]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-15]			
* Nose		Inflammation	Minimal
* Ovary		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 277	TRT#: 4	SEX: Female	DAY ON TEST: 653
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404397

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[Adenoma TGLS = 1-8]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 278

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404398

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Minimal
* Mammary Gland		Carcinoma	
		Fibroadenoma	
		[Carcinoma TGLS = 1-15]	
		[Fibroadenoma TGLS = 2-16]	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
		[Adenoma TGLS = 3-8]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 278

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404398

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 279

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404399

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Mild
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
		Mixed Cell Focus	
	[Mixed Cell Focus TGLS = 3-15]		
* Lung		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
	[Adenoma TGLS = 4-8]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 279	TRT#: 4	SEX: Female	DAY ON TEST: 731
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404399

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Epidermis	Hyperplasia	Mild
	SOA Epidermis	Hyperplasia	Mild
	Dermis	Inflammation	Mild
	SOA Dermis	Inflammation	Mild
	Epidermis	Ulcer	Mild
	SOA Epidermis	Ulcer	Mild
	[Ulcer TGLS = 1-15]		
	[Ulcer TGLS = 2-16]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 280

TRT#: 4

SEX: Female

DAY ON TEST: 624

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404400

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Mild
		Hydrocephalus	Moderate
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 2-15]		
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 3-15]		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
	[Adenoma TGLS = 1-8]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:41
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 280	TRT#: 4	SEX: Female	DAY ON TEST: 624
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404400

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 281

TRT#: 4

SEX: Female

DAY ON TEST: 707

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404401

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Inflammation	Suppurative, Moderate
		Nephropathy	Mild
		[Inflammation TGLS = 6-17]	
* Liver		Basophilic Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 5-6+7]	
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 281	TRT#: 4	SEX: Female	DAY ON TEST: 707
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404401

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 2-15]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-16]			
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Marked
[Adenoma TGLS = 1-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-16]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	
CONTRIBUTORY CAUSE OF DEATH	- Kidney	Inflammation;Pituitary Gland	Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 282

TRT#: 4

SEX: Female

DAY ON TEST: 669

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404402

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
	[Leukemia Mononuclear TGLS = 4-6+7]		
* Lung		Inflammation	Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-16]		
Mesentery	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 282	TRT#: 4	SEX: Female	DAY ON TEST: 669
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404402

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 3-15]			
* Nose	Olfactory Epi	Degeneration Inflammation	Minimal Minimal
* Pituitary Gland	Pars Distalis	Adenoma Cyst	Mild
[Adenoma TGLS = 5-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-15]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 283

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Cyst	Mild
		Inflammation	Mild
[Cyst TGLS = 2-16]			
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6+7]			
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-15]			
* Pituitary Gland		Cyst	Mild
	Pars Distalis	Hyperplasia	Minimal
[Cyst TGLS = 3-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 283	TRT#: 4	SEX: Female	DAY ON TEST: 731
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404403

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	Multiple
	Follicle	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 284

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Adenoma	
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLS = 2-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 1-15]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 284

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404404

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 285

TRT#: 4

SEX: Female

DAY ON TEST: 575

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404405

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Minimal
* Heart		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Hydronephrosis	Moderate
		Nephropathy	Mild
	[Hydronephrosis TGLS = 4-5]		
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-15]		
Mesentery		Leiomyosarcoma	Metastatic (Uterus)
	[Leiomyosarcoma TGLS = 3-17]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Inflammation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 285	TRT#: 4	SEX: Female	DAY ON TEST: 575
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404405

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Ulcer	Moderate
* Thyroid Gland		Atrophy	Marked
* Uterus	C Cell	Hyperplasia	Minimal
		Leiomyosarcoma	
[Leiomyosarcoma TGLS = 2-16]			

PRIMARY CAUSE OF DEATH	- Uterus	Leiomyosarcoma	
CONTRIBUTORY CAUSE OF DEATH	- Kidney	Hydronephrosis;Mammary Gland	Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 286 TRT#: 4 SEX: Female DAY ON TEST: 730
DOSE: 75 MG/KG DISP: Terminal Sacrifice HISTO: 0404406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Mixed Cell Focus	
		[Basophilic Focus TGLS = 2-15]	
		[Mixed Cell Focus TGLS = 3-15]	
* Pituitary Gland		Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-5]	
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 286

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404406

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 287

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 2-6+7]		
* Lung		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Parathyroid GI			

Note: No corresponding microscopic finding for enlarged parathyroid noted at necropsy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 287	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404407

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Angiectasis	Minimal
		Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLS = 1-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 288

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
	[Mixed Cell Focus TGLS = 2-15]		
* Lung		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Ovary		Cyst	Mild
	[Cyst TGLS = 1-16]		
* Pancreas	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 288

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404408

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 289

TRT#: 4

SEX: Female

DAY ON TEST: 624

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Clitoral Gland		Inflammation	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-15]		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 289	TRT#: 4	SEX: Female	DAY ON TEST: 624
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404409

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-8]

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 290

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Mild
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose		Inflammation	Mild
* Pituitary Gland		Cyst	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 290

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404410

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 291

TRT#: 4

SEX: Female

DAY ON TEST: 634

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404411

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
	[Hyperplasia TGLS = 1-6+7]		
* Lung		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
	[Adenoma TGLS = 2-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 291	TRT#: 4	SEX: Female	DAY ON TEST: 634
	DOSE: 75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404411

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 292

TRT#: 4

SEX: Female

DAY ON TEST: 410

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 2,3-15+16]		
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 1-15]		
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 292

TRT#: 4

SEX: Female

DAY ON TEST: 410

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404412

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 293

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
		[Basophilic Focus TGLS = 1-6+7]	
		[Hepatodiaphragmatic Nodule TGLS = 2-15]	
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Minimal
* Pancreas	Duct	Cyst	Minimal
* Pituitary Gland		Cyst	Mild
		[Cyst TGLS = 3-8]	
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 293

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404413

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 294

TRT#: 4

SEX: Female

DAY ON TEST: 571

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404414

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Nose	* Ovary
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

OBSERVATIONS

* Clitoral Gland		Cyst	Moderate
		Inflammation	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-15]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 294

TRT#: 4

SEX: Female

DAY ON TEST: 571

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404414

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 295

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404415

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Clitoral Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6+7]		
* Lung		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Pancreas	Duct	Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
	[Adenoma TGLS = 2-8]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 295	TRT#: 4	SEX: Female	DAY ON TEST: 731
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404415

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Inflammation	Moderate
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 296

TRT#: 4

SEX: Female

DAY ON TEST: 603

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404416

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Carcinoma	
[Carcinoma TGLS = 1-15]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-16]			
* Pancreas	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Cyst	Mild
[Adenoma TGLS = 2-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 296

TRT#: 4

SEX: Female

DAY ON TEST: 603

DOSE: 75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404416

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 297

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
	[Eosinophilic Focus TGLS = 1-6+7]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
	[Hyperplasia TGLS = 2-3]		
* Nose		Foreign Body	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLS = 3-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 297	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404417

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 298

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Minimal
* Mammary Gland		Adenoma	
		Fibroadenoma	Multiple
		[Fibroadenoma TGLS = 1,2,3-15+16+17]	
Mesentery	Fat	Necrosis	Mild
		[Necrosis TGLS = 5-18]	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Minimal
* Skin	SOA Epidermis	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 298	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404418

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-17]	SOA Dermis	Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Polyp Stromal	

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 299

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404419

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Adenoma	
		Inflammation	Mild
	[Adenoma TGLS = 1-14]		
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Leukemia Mononuclear	
		Mixed Cell Focus	
	[Leukemia Mononuclear TGLS = 5-6+7]		
* Lung		Inflammation	Minimal
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 299	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404419

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland [Fibroadenoma TGLS = 2-15]		Fibroadenoma	
Mesentery [Necrosis TGLS = 4-16]	Fat	Necrosis	Mild
* Nose		Inflammation	Minimal
* Pituitary Gland		Angiectasis	Mild
		Cyst	Minimal
	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 6-8]			
* Spleen [Leukemia Mononuclear TGLS = 3-5]		Leukemia Mononuclear	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 300

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404420

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Fatty Change	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-15+16]			
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
		Angiectasis	Moderate
		Cyst	Minimal
[Adenoma TGLS = 3-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 300

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404420

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Hematopoietic Cell Proliferation	Minimal
* Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 301

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone		Osteosarcoma	
[Osteosarcoma TGLS = 3-17]			
* Clitoral Gland		Cyst	Mild
		Inflammation	Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-16]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 301	TRT#: 6	SEX: Female	DAY ON TEST: 731
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404421

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 302

TRT#: 6

SEX: Female

DAY ON TEST: 550

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404422

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Mandibular	* Urinary Bladder
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Hydronephrosis	Moderate
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
		Mixed Cell Focus	
	[Hepatodiaphragmatic Nodule TGLS = 2-16]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
	Alveolar Epith	Metaplasia	Squamous, Minimal
* Pituitary Gland		Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Mild
* Uterus		Sarcoma Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 302

TRT#: 6

SEX: Female

DAY ON TEST: 550

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404422

ORGAN AND ACCOUNTABLE SITE STATUS

[Sarcoma Stromal TGLS = 1-15]

PRIMARY CAUSE OF DEATH

- Uterus Sarcoma Stromal

CONTRIBUTORY CAUSE OF DEATH

- Kidney Hydronephrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 303

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Retina	Atrophy	Moderate
		Cataract	Moderate
	Sclera	Metaplasia	Osseous, Mild
[Cataract TGLS = 1-15]			
* Harderian Gland		Inflammation	Minimal
* Heart		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung	Alveolar Epith	Metaplasia	Squamous, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 304

TRT#: 6

SEX: Female

DAY ON TEST: 702

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Clitoral Gland		Inflammation	Minimal
* Eye	Retina	Atrophy	Moderate
		Cataract	Moderate
			[Cataract TGLS = 1-10]
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Mild
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
			[Adenoma TGLS = 2-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 304

TRT#: 6

SEX: Female

DAY ON TEST: 702

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404424

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Cyst Epithelial Inclusion	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 305

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
		[Fibroadenoma TGLS = 1,3-15+17]	
		[Hyperplasia TGLS = 2-16]	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Angiectasis	Mild
		Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate
		[Hyperplasia TGLS = 4-8]	
* Skin	SOA Epidermis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 305	TRT#: 6	SEX: Female	DAY ON TEST: 730
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404425

ORGAN AND ACCOUNTABLE SITE STATUS

	SOA Dermis	Inflammation	Mild
	SOA Epidermis	Ulcer	Mild
[Ulcer TGLS = 5-15]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 306 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 731
DOSE: 150 MG/KG **DISP:** Terminal Sacrifice **HISTO:** 0404426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-15]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 306

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404426

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 307

TRT#: 6

SEX: Female

DAY ON TEST: 655

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Clitoral GI			
Note: One clitoral gland was missing			
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 307	TRT#: 6	SEX: Female	DAY ON TEST: 655
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404427

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland		Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
		Cyst	Mild
[Adenoma TGLS = 1-8]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 308

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Mild
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung		Inflammation	Minimal
Lymph Node	Deep Cervical	Carcinoma	Metastatic (Thyroid Gland)
[Carcinoma TGLS = 1-16]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[Adenoma TGLS = 2-15]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 308

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404428

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

C Cell

Carcinoma

[Carcinoma TGLS = 3-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 309

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404429

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
	[Basophilic Focus TGLS = 2-6+7+15]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-16]		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Moderate
	[Adenoma TGLS = 3-15]		
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 309

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404429

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Marked

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 310

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 1-15]			
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-16]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Angiectasis	Mild
		Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 3-8]			
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 310

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404430

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Marked

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 311

TRT#: 6

SEX: Female

DAY ON TEST: 332

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0404431

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	Minimal
* Thymus		Atrophy	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 312

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404432

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Clitoral Gland		Hyperplasia	Minimal
		Inflammation	Minimal
[Hyperplasia TGLS = 6-14]			
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Cecum		Lipoma	
[Lipoma TGLS = 5-18]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-15+16]			
Mesentery	Fat	Necrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 312	TRT#: 6	SEX: Female	DAY ON TEST: 731
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404432

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 4-17]

* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate

[Adenoma TGLS = 3-8]

* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 313

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
		Inflammation	Mild
	[Adenoma TGLS = 6-14]		
* Harderian Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 5-18]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Minimal
	Mesentery	Necrosis	Mild
	[Necrosis TGLS = 4-18]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 313	TRT#: 6	SEX: Female	DAY ON TEST: 730
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404433

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	SOA Epidermis	Hyperplasia	Mild
	Dermis	Inflammation	Mild
	SOA Dermis	Inflammation	Mild
	Epidermis	Ulcer	Mild
	SOA Epidermis	Ulcer	Mild
	[Ulcer TGLS = 2,3-16+17]		
	[Ulcer TGLS = 1-15]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 314

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404434

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Clitoral Gland		Inflammation	Mild
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
		[Hepatodiaphragmatic Nodule TGLS = 4-15]	
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
		[Fibroadenoma TGLS = 1,2-15+16]	
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 314	TRT#: 6	SEX: Female	DAY ON TEST: 731
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404434

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 3-8]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 315

TRT#: 6

SEX: Female

DAY ON TEST: 653

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404435

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Minimal
* Eye	Retina	Atrophy	Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Fatty Change	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung		Leukemia Mononuclear	
* Pituitary Gland		Angiectasis	Mild
		Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLS = 3-8]		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 315

TRT#: 6

SEX: Female

DAY ON TEST: 653

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404435

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-5]

* Thymus

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 316

TRT#: 6

SEX: Female

DAY ON TEST: 567

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear Necrosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Ovary		Cyst	Minimal
		[Cyst TGLS = 2-13]	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-15]	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 316

TRT#: 6

SEX: Female

DAY ON TEST: 567

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404436

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 317

TRT#: 6

SEX: Female

DAY ON TEST: 561

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
		Hyperplasia	Mild
		Inflammation	Mild
[Adenoma TGLS = 1-14]			
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6+7]			
* Lung		Leukemia Mononuclear	
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 5-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 317	TRT#: 6	SEX: Female	DAY ON TEST: 561
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404437

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 2-5]		Leukemia Mononuclear	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus [Polyp Stromal TGLS = 3-15]		Polyp Stromal	

PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Uterus	Polyp Stromal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 318

TRT#: 6

SEX: Female

DAY ON TEST: 673

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0404438

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Congestion	Mild
		Inflammation	Minimal
		[Congestion TGLS = 1-3+4]	
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary			
Note: One ovary was missing			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
		[Adenoma TGLS = 2-8]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 318

TRT#: 6

SEX: Female

DAY ON TEST: 673

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0404438

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Hematopoietic Cell Proliferation	Minimal
* Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 319

TRT#: 6

SEX: Female

DAY ON TEST: 635

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0404439

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Clitoral Gland		Inflammation	Minimal
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-16]			
* Skin	SOA Epidermis	Hyperplasia	Mild
	SOA Dermis	Inflammation	Mild
	SOA Epidermis	Ulcer	Mild
[Ulcer TGLS = 1-15]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Minimal
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 319

TRT#: 6

SEX: Female

DAY ON TEST: 635

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0404439

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLS = 3-15]

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH

- Uterus Polyp Stromal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 320

TRT#: 6

SEX: Female

DAY ON TEST: 716

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Leukemia Mononuclear	
* Liver		Basophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-6+7]		
* Lung		Leukemia Mononuclear	
* Pituitary Gland		Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLS = 9-8]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 320	TRT#: 6	SEX: Female	DAY ON TEST: 716
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404440

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Hair Follicle, SOA Dermis	Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLS = 1,2,3,4,5,6-15+16+17+18+19+20]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-21]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 321

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
		[Fibroadenoma TGLS = 1,2-15+16]	
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland		Cyst	Minimal
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 322

TRT#: 6

SEX: Female

DAY ON TEST: 616

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Mild
* Heart		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear Cl, Mild
	Myocardium	Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
		Vacuolization Cytoplasmic	Mild
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
		Necrosis	Mild
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-15]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 2-15]		
* Nose	Olfactory Epi	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 322	TRT#: 6	SEX: Female	DAY ON TEST: 616
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404442

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Inflammation	Mild
		Angiectasis	Minimal
		Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
[Cyst TGLS = 8-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-15]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
[Adenoma TGLS = 5-8]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 323

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
		[Basophilic Focus TGLS = 2-16]	
		[Hepatodiaphragmatic Nodule TGLS = 3-15]	
* Lung		Inflammation	Minimal
	Lymph Node	Hyperplasia	Lymphoid, Mild
		[Hyperplasia TGLS = 4-15]	
* Ovary		Cyst	Mild
		[Cyst TGLS = 1-13]	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 323

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404443

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 324

TRT#: 6

SEX: Female

DAY ON TEST: 697

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0404444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Minimal
* Heart		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
		Vacuolization Cytoplasmic	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-6+7]	
* Lung		Leukemia Mononuclear	
	Deep Cervical	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-16]	
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 1-15]	
* Nose		Inflammation	Minimal
* Pituitary Gland		Cyst	Mild
		[Cyst TGLS = 5-8]	
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 324	TRT#: 6	SEX: Female	DAY ON TEST: 697
	DOSE: 150 MG/KG	DISP: Natural Death	HISTO: 0404444

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-15]

* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Cyst

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 325

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6+7]		
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[Adenoma TGLS = 3-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
	[Leukemia Mononuclear TGLS = 2-5]	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 325

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404445

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Marked

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 326

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Adenoma	
		Inflammation	Minimal
	[Adenoma TGLS = 1-14]		
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
	[Basophilic Focus TGLS = 3-6+7]		
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 2-15]		
* Pituitary Gland		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 326

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404446

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 327

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-15]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild
* Ovary		Cyst	Mild
[Cyst TGLS = 2-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 327	TRT#: 6	SEX: Female	DAY ON TEST: 731
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404447

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 328

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Minimal
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Inflammation	Minimal
		Necrosis	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Carcinoma	
		Fibroadenoma	
	[Carcinoma TGLS = 2-16]		
	[Fibroadenoma TGLS = 1-15]		
* Nose		Inflammation	Minimal
* Ovary		Cyst	Mild
	[Cyst TGLS = 3-13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 328	TRT#: 6	SEX: Female	DAY ON TEST: 730
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404448

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Angiectasis	Mild
		Cyst	Minimal
	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 4,5-8]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicle	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 329

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 1-15]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
[Adenoma TGLS = 2-8]			
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 329

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404449

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 330

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Leukemia Mononuclear	
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6+7]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 2-15]		
* Ovary		Cyst	Mild
	[Cyst TGLS = 4-13]		
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 330	TRT#: 6	SEX: Female	DAY ON TEST: 731
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404450

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-8]		Angiectasis	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-5]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicle	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 331

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
		Inflammation	Mild
[Adenoma TGLS = 1-14]			
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
		Mixed Cell Focus	
[Hepatodiaphragmatic Nodule TGLS = 3-15]			
* Lung		Inflammation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 331	TRT#: 6	SEX: Female	DAY ON TEST: 731
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404451

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 2-15]	Fat	Necrosis	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Spleen		Hyperplasia	Mild
* Thymus		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Atrophy	Moderate
		Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 332

TRT#: 6

SEX: Female

DAY ON TEST: 723

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Minimal
* Eye	Retina	Atrophy	Moderate
		Cataract	Moderate
	[Cataract TGLS = 5-10]		
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-15]		
Mesentery	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 332	TRT#: 6	SEX: Female	DAY ON TEST: 723
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404452

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 4-16]			
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis Cyst	Moderate Mild
[Adenoma TGLS = 6-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-15]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell C Cell	Adenoma Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 333

TRT#: 6

DOSE: 150 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 668

HISTO: 0404453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[Clear Cell Focus TGLS = 1-15]			
[Eosinophilic Focus TGLS = 2-16]			
* Nose	Olfactory Epi	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 333	TRT#: 6	SEX: Female	DAY ON TEST: 668
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404453

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Respirat Epith Pars Distalis	Degeneration Adenoma Angiectasis	Minimal Moderate
[Adenoma TGLS = 3-8]			
* Thyroid Gland	C Cell C Cell	Adenoma Atrophy Hyperplasia	Moderate Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 334

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Carcinoma	
		Inflammation	Mild
[Carcinoma TGLS = 1-15]			
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 334	TRT#: 6	SEX: Female	DAY ON TEST: 731
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404454

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]

* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 335

TRT#: 6

SEX: Female

DAY ON TEST: 702

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Minimal
* Heart		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Fatty Change	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
	[Fibroadenoma TGLS = 1-15]		
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 335	TRT#: 6	SEX: Female	DAY ON TEST: 702
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404455

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-8]	Angiectasis	Mild
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-5]		
* Stomach, Forestomach	Inflammation	Mild
* Thymus	Atrophy	Marked
	Leukemia Mononuclear	
* Thyroid Gland	Adenoma	
	C Cell	
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 336

TRT#: 6

SEX: Female

DAY ON TEST: 616

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Leukemia Mononuclear	
* Liver		Basophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
[Leukemia Mononuclear TGLS = 3-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 336

TRT#: 6

SEX: Female

DAY ON TEST: 616

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404456

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 6-17]			
[Leukemia Mononuclear TGLS = 8-18]			
[Leukemia Mononuclear TGLS = 5-16]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-6]			
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 4-15]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Ovary		Atrophy	Marked
		Cyst	Mild
* Pituitary Gland		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-15]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 337

TRT#: 6

SEX: Female

DAY ON TEST: 513

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0404457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Clitoral Gland		Inflammation	Minimal
* Heart		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Congestion	Mild
[Congestion TGLS = 2-3+4]			
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 338

TRT#: 6

SEX: Female

DAY ON TEST: 637

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0404458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Clitoral Gland		Inflammation	Minimal
* Heart		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1,2-15+16]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
	[Adenoma TGLS = 3-8]		
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 338	TRT#: 6	SEX: Female	DAY ON TEST: 637
	DOSE: 150 MG/KG	DISP: Natural Death	HISTO: 0404458

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 339	TRT#: 6 DOSE: 150 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 0404459
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Foreign Body	
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[Adenoma TGLS = 1-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 339	TRT#: 6	SEX: Female	DAY ON TEST: 730
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404459

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 340

TRT#: 6

SEX: Female

DAY ON TEST: 660

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
<p>Note: The enlarged mediastinal lymph node identified at necropsy was examined microscopically and diagnosed as a hepatodiaphragmatic nodule [Hepatodiaphragmatic Nodule TGLS = 2-16]</p>			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolar Epith	Metaplasia	Squamous, Mild
* Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 340	TRT#: 6	SEX: Female	DAY ON TEST: 660
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404460

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-15]			
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLS = 3-16]			
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 341

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Cyst	Mild
		Hyperplasia	Mild
		Inflammation	Mild
[Hyperplasia TGLS = 2-14]			
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	

[Basophilic Focus TGLS = 1-6+7]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 341	TRT#: 6	SEX: Female	DAY ON TEST: 731
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404461

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[Adenoma TGLS = 4-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicle	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 3-15]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 342

TRT#: 6

SEX: Female

DAY ON TEST: 723

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
		[Fibroadenoma TGLS = 2,3-16+17]	
Mesentery	Fat	Necrosis	Minimal
		[Necrosis TGLS = 5-17]	
* Nose		Inflammation	Minimal
* Pancreas	Duct	Cyst	Mild
* Pituitary Gland		Cyst	Minimal
* Skin	SOA Epidermis	Hyperkeratosis	Minimal
	Subcut Tiss	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 342	TRT#: 6	SEX: Female	DAY ON TEST: 723
	DOSE: 150 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404462

ORGAN AND ACCOUNTABLE SITE STATUS

Note: The right abdominal mammary gland mass (TGL # 1) identified at necropsy was diagnosed microscopically as dermal subcutaneous necrosis of fat
[Hyperkeratosis TGLS = 4-18]
[Necrosis TGLS = 1-15]

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 343

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Mild
[Hyperplasia TGLS = 1-14]			
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-15]			
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 343	TRT#: 6	SEX: Female	DAY ON TEST: 731
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404463

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]

* Skin	Sebaceous Gl	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 344

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 1-15]	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
		[Adenoma TGLS = 2-8]	
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 344	TRT#: 6	SEX: Female	DAY ON TEST: 730
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404464

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 345

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
	[Basophilic Focus TGLS = 2-6+7]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Mild
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 1-15]		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 345	TRT#: 6	SEX: Female	DAY ON TEST: 730
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404465

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 346

TRT#: 6

SEX: Female

DAY ON TEST: 711

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404466

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
		Inflammation	Mild
[Adenoma TGLS = 1-14]			
* Eye	Sclera	Metaplasia	Osseous, Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Intestine Large, Colon		Parasite Metazoan	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
[Hepatodiaphragmatic Nodule TGLS = 4-15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 346

TRT#: 6

SEX: Female

DAY ON TEST: 711

DOSE: 150 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404466

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-6+7]

* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Atrophy	Marked
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Polyp Stromal	

[Polyp Stromal TGLS = 6-16]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 347

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Minimal
* Heart		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Cyst	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 3-15]		
* Lung		Inflammation	Minimal
* Nose		Inflammation	Mild
* Ovary	Bilateral	Cyst	Mild
	[Cyst TGLS = 1,2-13]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 347

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404467

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 348

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Lipoma	
		Nephropathy	Minimal
		[Lipoma TGLS = 6-16]	
* Liver		Basophilic Focus	
		Fibrosis	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
		[Basophilic Focus TGLS = 3-6+7]	
* Lung		Metaplasia	Osseous, Minimal
Mesentery	Fat	Necrosis	Marked
		[Necrosis TGLS = 2-15]	
* Nose		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 348	TRT#: 6	SEX: Female	DAY ON TEST: 730
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404468

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary [Cyst TGLS = 4-13]		Cyst	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[Adenoma TGLS = 1-8]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 5-15]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 349

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 1,2-15+16]			
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 3-8]			
* Skin	SOA Dermis	Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 349

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404469

ORGAN AND ACCOUNTABLE SITE STATUS

	SOA Epidermis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 350

TRT#: 6

SEX: Female

DAY ON TEST: 526

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0404470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Vacuolization Cytoplasmic	Moderate
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Marked
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Mild
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Foreign Body	
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

[Adenoma TGLS = 1-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 350

TRT#: 6

SEX: Female

DAY ON TEST: 526

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0404470

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin

SOA Epidermis

Hyperplasia

Minimal

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 351

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
Note: Massons trichrome stain confirmed reported cardiac histology results			
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-16]		
* Nose	Olfactory Epi	Degeneration	Moderate
* Pancreas	Duct	Cyst	Minimal
* Pituitary Gland		Cyst	Mild
	Pars Distalis	Hyperplasia	Minimal
	[Hyperplasia TGLS = 2-15]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 351	TRT#: 8	SEX: Female	DAY ON TEST: 731
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404471

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland [Hyperplasia TGLS = 3-8]	C Cell	Hyperplasia	Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 352

TRT#: 8

SEX: Female

DAY ON TEST: 115

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404472

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
Note: Special stain battery (HandE, GMS, MTrchr, and MPtchr) confirmed reported cardiac histologic findings			
* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 353

TRT#: 8

SEX: Female

DAY ON TEST: 620

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Minimal
* Eye	Retina	Atrophy	Moderate
		Cataract	Mild
		[Cataract TGLS = 1-10]	
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Leukemia Mononuclear	
		Necrosis	Minimal
		[Leukemia Mononuclear TGLS = 4-6+7]	
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Minimal
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 353	TRT#: 8	SEX: Female	DAY ON TEST: 620
	DOSE: 300 MG/KG	DISP: Natural Death	HISTO: 0404473

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-5]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Sarcoma Stromal	
	[Sarcoma Stromal TGLS = 3-15]		

PRIMARY CAUSE OF DEATH	- Uterus	Sarcoma Stromal
CONTRIBUTORY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 354

TRT#: 8

SEX: Female

DAY ON TEST: 121

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404474

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Necrosis	Moderate
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
Note: Battery of special stains (HandE, GMS, MTchr, and MPtchr) confirmed reported cardiac histologic findings			
* Nose	Olfactory Epi	Degeneration	Marked

PRIMARY CAUSE OF DEATH

- Adrenal Cortex Necrosis

CONTRIBUTORY CAUSE OF DEATH

- Heart Myocardium Infiltration Cellular

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 355

TRT#: 8

SEX: Female

DAY ON TEST: 117

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Necrosis	Moderate
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Moderate
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
Note: Special stain battery (HandE, GMS, MTrchr, MPtchr) confirmed reported cardiac histologic results			
* Nose	Olfactory Epi	Degeneration	Mild

PRIMARY CAUSE OF DEATH

- Adrenal Cortex Necrosis

CONTRIBUTORY CAUSE OF DEATH

- Heart Myocardium Infiltration Cellular

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 356

TRT#: 8

DOSE: 300 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 716

HISTO: 0404476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Nose

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Minimal
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear Cl, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Fatty Change	Mild
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Fatty Change TGLS = 5-6+15]		
	[Leukemia Mononuclear TGLS = 4-6+7+15]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-18]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 356	TRT#: 8	SEX: Female	DAY ON TEST: 716
	DOSE: 300 MG/KG	DISP: Natural Death	HISTO: 0404476

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland [Fibroadenoma TGLS = 1,2-16+17]		Fibroadenoma	Multiple
* Pituitary Gland [Adenoma TGLS = 7-8]	Pars Distalis	Adenoma Angiectasis	Mild
* Spleen [Leukemia Mononuclear TGLS = 3-5]		Hematopoietic Cell Proliferation Leukemia Mononuclear	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 357

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404477

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Clitoral Gland		Inflammation	Minimal
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
Note: Massons trichrome stain confirmed reported histology results			
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 357

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404477

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 358

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Adenoma	
		Inflammation	Moderate
[Adenoma TGLS = 1-15]			
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
Note: Massons trichrome stain confirmed reported cardiac histology results			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 358	TRT#: 8	SEX: Female	DAY ON TEST: 731
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404478

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-8]	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Tongue		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 3-16]			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 359

TRT#: 8

SEX: Female

DAY ON TEST: 674

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Hyperplasia	Mild
* Brain	Hypothalamus	Compression	Minimal
		Hydrocephalus	Mild
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 1-15]			
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
		Mixed Cell Focus	
[Hepatodiaphragmatic Nodule TGLS = 5-19]			
* Mammary Gland		Adenoma	
		Fibroadenoma	Multiple
[Adenoma TGLS = 4-18]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 359	TRT#: 8	SEX: Female	DAY ON TEST: 674
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404479

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 2,3-16+17]

* Nose	Olfactory Epi	Degeneration	Marked
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Mild

[Adenoma TGLS = 6-8]

* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Marked
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH	- Mammary Gland	Fibroadenoma
CONTRIBUTORY CAUSE OF DEATH	- Mammary Gland	Adenoma;Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 360

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
Note: Massons trichrome stain confirmed reported cardiac histology results			
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
[Hepatodiaphragmatic Nodule TGLS = 3-16]			
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-15]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 360	TRT#: 8	SEX: Female	DAY ON TEST: 731
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404480

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1-8]

* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 361

TRT#: 8

SEX: Female

DAY ON TEST: 67

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lung | * Lymph Node, Mesenteric |
| * Mammary Gland | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- * Eye
 - Note: Both optic nerves were missing
- * Heart

Myocardium	Cardiomyopathy	Minimal
Myocardium	Fibrosis	Mild
Myocardium	Infiltration Cellular	Mononuclear CI, Mild
Myocardium	Necrosis	Minimal
	Vacuolization Cytoplasmic	Mild

 - Note: Special stain battery (HandE, GMS, MTchr, and MPtchr) confirmed reported cardiac histologic results
- * Liver
 - [Hepatodiaphragmatic Nodule TGLS = 1-7]
 - Hepatodiaphragmatic Nodule
- * Nose

Olfactory Epi	Degeneration	Mild
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PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 362

TRT#: 8

SEX: Female

DAY ON TEST: 550

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Hyperplasia	Minimal
		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	Minimal
	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLS = 2-8]		
* Spleen		Hematopoietic Cell Proliferation	Marked
* Thymus		Atrophy	Mild
Vagina		Polyp	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 362

TRT#: 8

SEX: Female

DAY ON TEST: 550

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404482

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp TGLS = 1-15]

PRIMARY CAUSE OF DEATH

- Vagina Polyp

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 363

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
Note: Massons trichrome stain confirmed reported cardiac histology results			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLS = 1-8]		
* Skin	SOA Dermis	Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 363

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404483

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 364

TRT#: 8

SEX: Female

DAY ON TEST: 189

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland		Cyst	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Mild
Zymbal's Gland		Carcinoma	

[Carcinoma TGLS = 1-15]

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 365

TRT#: 8

SEX: Female

DAY ON TEST: 662

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Mild
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 365

TRT#: 8

SEX: Female

DAY ON TEST: 662

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404485

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-8]

* Spleen

Hematopoietic Cell Proliferation

Mild

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-5]

* Thymus

Atrophy

Marked

Note: No corresponding microscopic finding for the grossly-diagnosed thymic enlargement

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 3-15]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 366

TRT#: 8

SEX: Female

DAY ON TEST: 121

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Necrosis	Moderate
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
Note: Battery of special stains (HandE, GMS, MTrchr, MPtchr) confirmed reported cardiac histologic results			
* Nose	Olfactory Epi	Degeneration	Mild

PRIMARY CAUSE OF DEATH

- Adrenal Cortex Necrosis

CONTRIBUTORY CAUSE OF DEATH

- Heart Myocardium Infiltration Cellular

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 367

TRT#: 8

SEX: Female

DAY ON TEST: 109

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hemorrhage	Moderate
		Necrosis	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
Note: Special stain battery (HandE, GMS, MTRchr, and MPtchr) confirmed original cardiac histologic results			
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	Mild

[Cyst TGLS = 1-12]

PRIMARY CAUSE OF DEATH - Adrenal Cortex Hemorrhage

CONTRIBUTORY CAUSE OF DEATH - Heart Myocardium Infiltration Cellular

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 368

TRT#: 8

SEX: Female

DAY ON TEST: 262

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404488

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone	Joint	Inflammation	Mild
* Clitoral Gland		Inflammation	Mild
* Harderian Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Atrophy	Mild
* Stomach, Glandular		Inflammation	Moderate
		Mineralization	Mild
		Ulcer	Moderate
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

- Stomach, Glandular Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 369

TRT#: 8

DOSE: 300 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0404489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Mild
* Heart		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Leukemia Mononuclear	
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-15]			
* Nose	Olfactory Epi	Degeneration	Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 369

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404489

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-8]

* Spleen

Leukemia Mononuclear

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 370

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
		Leukemia Mononuclear	
	[Basophilic Focus TGLS = 2-16]		
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-15]		
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 370	TRT#: 8	SEX: Female	DAY ON TEST: 731
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404490

ORGAN AND ACCOUNTABLE SITE STATUS

		Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate
[Adenoma TGLS = 3-17]			
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 371

TRT#: 8

SEX: Female

DAY ON TEST: 630

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone	Joint	Inflammation	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Eye	Retina	Atrophy	Moderate
		Cataract	Moderate
[Cataract TGLS = 1-10]			
* Heart		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Leukemia Mononuclear	
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
[Leukemia Mononuclear TGLS = 4-6+7]			
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 371	TRT#: 8	SEX: Female	DAY ON TEST: 630
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404491

ORGAN AND ACCOUNTABLE SITE STATUS

		Angiectasis	Mild
		Cyst	Mild
	Pars Distalis	Hyperplasia	Minimal
[Adenoma TGLS = 5-8]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Infarct	Moderate
		Leukemia Mononuclear	
[Infarct TGLS = 3-16]			
[Leukemia Mononuclear TGLS = 2-15]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 372

TRT#: 8

SEX: Female

DAY ON TEST: 326

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hemorrhage	Mild
* Harderian Gland		Inflammation	Minimal
* Heart		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
* Pituitary Gland		Angiectasis	Mild
		Cyst	Minimal
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

- Adrenal Cortex Hemorrhage

CONTRIBUTORY CAUSE OF DEATH

- Heart Myocardium Infiltration Cellular

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 373

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404493

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Bone	Joint	Inflammation	Minimal
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Cyst	Minimal
		[Adenoma TGLS = 1-8]	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 373

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404493

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 374

TRT#: 8

SEX: Female

DAY ON TEST: 464

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Skin

OBSERVATIONS

* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
	[Adenoma TGLS = 1-8]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 374

TRT#: 8

SEX: Female

DAY ON TEST: 464

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404494

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 375

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404495

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Hyperplasia	Minimal
* Harderian Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
		Inflammation	Minimal
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 375	TRT#: 8	SEX: Female	DAY ON TEST: 730
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404495

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 376

TRT#: 8

SEX: Female

DAY ON TEST: 232

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Necrosis	Moderate
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear Cl, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Liver		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland		Cyst	Minimal
		Hemorrhage	Minimal
		Hemorrhage	Moderate
	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

- Adrenal Cortex Necrosis

CONTRIBUTORY CAUSE OF DEATH

- Heart Myocardium Infiltration Cellular

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 377

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404497

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Mild
* Eye	Retina	Atrophy	Moderate
		Cataract	Moderate
	[Cataract TGLS = 4-10]		
* Heart		Cardiomyopathy	Moderate
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Inflammation	Minimal
		Leukemia Mononuclear	
		Mixed Cell Focus	
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung		Inflammation	Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-15]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 377	TRT#: 8	SEX: Female	DAY ON TEST: 730
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404497

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 2-16]	Fat	Necrosis	Moderate
* Nose	Olfactory Epi	Degeneration Inflammation	Mild Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland [Adenoma TGLS = 5-8]	Pars Distalis	Adenoma Angiectasis	Moderate
* Spleen		Hematopoietic Cell Proliferation Leukemia Mononuclear	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 378

TRT#: 8

SEX: Female

DAY ON TEST: 66

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404498

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
Note: Special stain battery (HandE, GMS, MTrchr, and MPtchr) confirmed reported cardiac histologic results			
* Kidney		Hydronephrosis	Mild
* Nose	Olfactory Epi	Degeneration	Minimal

PRIMARY CAUSE OF DEATH - Heart Myocardium Infiltration Cellular

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:42

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 379

TRT#: 8

DOSE: 300 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 687

HISTO: 0404499

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Bone Marrow

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear Cl, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Fibrosis	Mild
		Hepatocellular Carcinoma	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Hepatocellular Carcinoma TGLS = 2-15]		
	[Hepatodiaphragmatic Nodule TGLS = 3-16+17]		
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 4-18]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 379	TRT#: 8	SEX: Female	DAY ON TEST: 687
	DOSE: 300 MG/KG	DISP: Natural Death	HISTO: 0404499

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 7-19]	Fat	Necrosis	Moderate
* Nose	Olfactory Epi	Degeneration	Moderate
* Pituitary Gland [Adenoma TGLS = 6-8]	Pars Distalis	Adenoma Angiectasis	Mild
* Spleen [Leukemia Mononuclear TGLS = 1-5]		Hematopoietic Cell Proliferation Leukemia Mononuclear	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 380

TRT#: 8

SEX: Female

DAY ON TEST: 597

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
* Brain	Hypothalamus	Compression	Mild
		Hydrocephalus	Mild
* Heart		Cardiomyopathy	Moderate
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Mild
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
		[Fibroadenoma TGLS = 1-15]	
		[Hyperplasia TGLS = 2,3-16+17]	
* Nose	Olfactory Epi	Degeneration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 380	TRT#: 8	SEX: Female	DAY ON TEST: 597
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404500

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-8]		Angiectasis	Moderate
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 381

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Minimal
* Heart		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 4-16]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 3-8]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 381	TRT#: 8	SEX: Female	DAY ON TEST: 730
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404501

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Sarcoma Stromal	
[Sarcoma Stromal TGLS = 2-15]			

PRIMARY CAUSE OF DEATH -
Animal Note: TGL 1 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 382

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 1-15]	
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Minimal
* Ovary		Cyst	Mild
		[Cyst TGLS = 2-13]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 382	TRT#: 8	SEX: Female	DAY ON TEST: 730
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404502

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Mild
	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
		Hyperplasia	Moderate
	[Hyperplasia TGLS = 3-8]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 383

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404503

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Minimal
* Eye	Retina	Atrophy	Moderate
	Sclera	Cataract	Moderate
		Metaplasia	Osseous, Mild
[Cataract TGLS = 1-10]			
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-15]			
* Nose	Olfactory Epi	Degeneration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 383	TRT#: 8	SEX: Female	DAY ON TEST: 731
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404503

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 384

TRT#: 8

SEX: Female

DAY ON TEST: 714

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Necrosis	Mild
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Eye	Retina	Atrophy	Moderate
		Cataract	Moderate
[Cataract TGLS = 3-10]			
* Heart		Cardiomyopathy	Moderate
		Fibrosis	Marked
	Myocardium	Infiltration Cellular	Mononuclear CI, Marked
		Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Marked
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
[Leukemia Mononuclear TGLS = 1-6+7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:42
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 384	TRT#: 8	SEX: Female	DAY ON TEST: 714
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404504

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung	Alveolar Epith	Hyperplasia Leukemia Mononuclear	Minimal
Mesentery [Necrosis TGLS = 4-15]	Fat	Necrosis	Moderate
* Nose	Olfactory Epi	Degeneration	Moderate
* Pituitary Gland		Angiectasis	Mild
		Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLS = 5-8]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-5]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Adrenal Cortex Necrosis;Heart Myocardium Infiltration Cellular

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:43

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 385

TRT#: 8

SEX: Female

DAY ON TEST: 121

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Necrosis	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
Note: Special stain battery (HandE, GMS, MTrchr, and MPtchr) confirmed reported cardiac histology results			
* Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Squamous, Minimal
* Ovary		Cyst	Mild
	[Cyst TGLS = 1-12]		
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Adrenal Cortex Necrosis

CONTRIBUTORY CAUSE OF DEATH

- Heart Myocardium Infiltration Cellular

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 386

TRT#: 8

SEX: Female

DAY ON TEST: 378

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-15]		
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 2-15]		

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 387

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
		Inflammation	Mild
[Adenoma TGLS = 1-15]			
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
[Hepatodiaphragmatic Nodule TGLS = 5-17]			
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
[Fibroadenoma TGLS = 2-15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 387	TRT#: 8	SEX: Female	DAY ON TEST: 731
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404507

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 3-16]

* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium Bilateral	Hyperplasia Polyp Stromal	Cystic, Moderate

[Polyp Stromal TGLS = 4-16]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 388

TRT#: 8

SEX: Female

DAY ON TEST: 219

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Liver		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:43

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 389

TRT#: 8

SEX: Female

DAY ON TEST: 632

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Minimal
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Moderate
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Moderate
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Marked
* Ovary		Cyst	Mild
	[Cyst TGLS = 1-15]		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
	[Adenoma TGLS = 2-15]		
* Stomach, Forestomach		Inflammation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 389

TRT#: 8

SEX: Female

DAY ON TEST: 632

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404509

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 10/22/2014

Time Report Requested: 00:16:43

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 390

TRT#: 8

SEX: Female

DAY ON TEST: 71

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
Note: Special stain battery (HandE, GMS, MTrchr, and MPtchr) confirmed reported cardiac histology results			
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 391

TRT#: 8

SEX: Female

DAY ON TEST: 633

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		[Basophilic Focus TGLS = 3-6+7+16]	
		[Hepatodiaphragmatic Nodule TGLS = 2-15]	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Marked
* Ovary		Cyst	Mild
		[Cyst TGLS = 1-13]	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
		[Adenoma TGLS = 4-8]	
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 391	TRT#: 8	SEX: Female	DAY ON TEST: 633
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404511

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 392

TRT#: 8

SEX: Female

DAY ON TEST: 549

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Basophilic Focus	
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-15]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Skin	SOA Dermis	Fibrosis	Minimal
	SOA Epidermis	Hyperplasia	Mild
	SOA Dermis	Inflammation	Mild
	SOA Epidermis	Ulcer	Mild
[Ulcer TGLS = 1-15]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 393

TRT#: 8

SEX: Female

DAY ON TEST: 707

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	* Skin	Spinal Cord	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Mild
* Clitoral Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Minimal
	Myocardium	Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
* Kidney		Vacuolization Cytoplasmic	Moderate
* Liver		Nephropathy	Minimal
		Basophilic Focus	
		Fatty Change	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 2-15]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 3-16]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 5-19]		
Mesentery	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 393	TRT#: 8	SEX: Female	DAY ON TEST: 707
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404513

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 4-16+17]			
* Nose	Olfactory Epi	Degeneration Inflammation	Moderate Mild
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate
* Spleen		Fibrosis Leukemia Mononuclear	Minimal
[Fibrosis TGLS = 1-15]			
* Stomach, Glandular		Ulcer	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 394

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

[Adenoma TGLS = 2-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 394	TRT#: 8	SEX: Female	DAY ON TEST: 731
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404514

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia Polyp Stromal	Cystic, Moderate

[Polyp Stromal TGLS = 1-15]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 395

TRT#: 8

SEX: Female

DAY ON TEST: 674

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
		Inflammation	Minimal
Note: The mammary gland mass noted at necropsy was examined microscopically and diagnosed as a clitoral gland neoplasm [Adenoma TGLS = 1-15]			
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- Clitoral Gland Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 396

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Minimal
Note: One clitoral gland was missing			
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1,2-15+16]			
* Nose	Olfactory Epi	Degeneration	Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Angiectasis	Mild
		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 396	TRT#: 8	SEX: Female	DAY ON TEST: 730
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404516

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Pars Distalis	Hyperplasia	Moderate
* Thymus		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland		Atrophy	Mild
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 397

TRT#: 8

SEX: Female

DAY ON TEST: 213

DOSE: 300 MG/KG

DISP: Natural Death

HISTO: 0404517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Liver		Inflammation	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Congestion	Moderate
	[Congestion TGLS = 1-3+4]		
* Nose	Olfactory Epi	Degeneration	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 398

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
		Fibrosis	Mild
	Myocardium	Infiltration Cellular	Mononuclear CI, Mild
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
		[Basophilic Focus TGLS = 2-6+7]	
		[Hepatodiaphragmatic Nodule TGLS = 3-15]	
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Moderate
		[Necrosis TGLS = 1-15]	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 398

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404518

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 399

TRT#: 8

SEX: Female

DAY ON TEST: 535

DOSE: 300 MG/KG

DISP: Moribund Sacrifice

HISTO: 0404519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Minimal
	Myocardium	Infiltration Cellular	Mononuclear Cl, Minimal
	Myocardium	Leukemia Mononuclear	
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Minimal
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-15]		
* Nose	Glands	Cyst	Mild
	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 399	TRT#: 8	SEX: Female	DAY ON TEST: 535
	DOSE: 300 MG/KG	DISP: Moribund Sacrifice	HISTO: 0404519

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Cyst	Mild
		Hyperplasia	Mild
[Adenoma TGLS = 1-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-5]			
* Stomach, Forestomach		Inflammation	Moderate
		Ulcer	Mild
* Stomach, Glandular		Fibrosis	Mild
* Thymus		Atrophy	Marked
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 400

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0404520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Fibrosis	Moderate
	Myocardium	Infiltration Cellular	Mononuclear CI, Moderate
	Myocardium	Necrosis	Minimal
	Myocardium	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	
		[Leukemia Mononuclear TGLS = 2,3,4,5-16+17+18+19]	
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 1-15]	
* Nose	Olfactory Epi	Degeneration	Moderate
* Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99028-05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 10/22/2014
Time Report Requested: 00:16:43
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 400	TRT#: 8	SEX: Female	DAY ON TEST: 731
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0404520

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
* Thymus		Atrophy	Moderate
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE