

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

C Number:	C97003C
Lock Date:	10/27/2000
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB402M-1

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Eye	Heart	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	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node, Mandibular	Mammary Gland
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OBSERVATIONS

Skin
Note: control and SOA

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: MB402M-2

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Eye	Heart	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	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node, Mandibular

INSUFFICIENT TISSUE

Skin

OBSERVATIONS

Pancreas	Infiltration Cellular	Lymphocyte, Focal, Minimal
Preputial Gland	Inflammation	Chronic, Focal, Minimal
Skin		

Note: control and SOA

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 3	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: MB402M-3

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Eye	Heart	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	Nose	Pancreas	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node, Mandibular	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Skin
Note: control and SOA

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 4	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: MB402M-4

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Eye	Heart	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	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node, Mandibular	Mammary Gland	Pituitary Gland
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OBSERVATIONS

Skin		
Note: control and SOA		
Thymus	Hemorrhage	Focal, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 5	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: MB402M-5

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Eye	Heart	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
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node, Mandibular	Mammary Gland
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OBSERVATIONS

Lung	Hemorrhage	Focal, Mild
Nose	Hemorrhage	Focal, Minimal
Skin		

Note: control and SOA

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB402M-6

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Eye	Heart	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	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node, Mandibular

OBSERVATIONS

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 7	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: MB402M-7

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Eye	Heart	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	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node, Mandibular

OBSERVATIONS

Skin
Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 8	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: MB402M-8

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	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	Nose	Pancreas	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node, Mandibular	Parathyroid Gland
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OBSERVATIONS

Heart	Inflammation	Chronic, Focal, Minimal
Skin		

Note: control and SOA

PRIMARY CAUSE OF DEATH -

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB402M-9

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Eye	Heart	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
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node, Mandibular	Mammary Gland
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OBSERVATIONS

Lung		Alveolar/Bronchiolar Adenoma	
Skin	SOA Epidermis	Hyperkeratosis	Minimal
	SOA Epidermis	Hyperplasia	Minimal

Note: control skin normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB402M-10

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Eye	Heart	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	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node, Mandibular	Mammary Gland
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OBSERVATIONS

Skin
Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 11

TRT#: 2

SEX: Male

DAY ON TEST: 93

DOSE: 0.2 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-11

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 12

TRT#: 2

SEX: Male

DAY ON TEST: 93

DOSE: 0.2 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-12

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 13

TRT#: 2

SEX: Male

DAY ON TEST: 93

DOSE: 0.2 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-13

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Skin

OBSERVATIONS

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 14

TRT#: 2

SEX: Male

DAY ON TEST: 93

DOSE: 0.2 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-14

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Skin

OBSERVATIONS

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 15

TRT#: 2

SEX: Male

DAY ON TEST: 93

DOSE: 0.2 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-15

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Mild

SOA Epidermis

Hyperplasia

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 16

TRT#: 2

SEX: Male

DAY ON TEST: 93

DOSE: 0.2 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-16

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Mild

SOA Epidermis

Hyperplasia

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 17

TRT#: 2
DOSE: 0.2 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-17

OBSERVATIONS

Skin

SOA Epidermis
SOA Epidermis

Hyperkeratosis
Hyperplasia

Mild
Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 18

TRT#: 2

SEX: Male

DAY ON TEST: 93

DOSE: 0.2 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-18

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Mild

SOA Epidermis

Hyperplasia

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 19

TRT#: 2

SEX: Male

DAY ON TEST: 93

DOSE: 0.2 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-19

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Mild

SOA Epidermis

Hyperplasia

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 20

TRT#: 2

SEX: Male

DAY ON TEST: 93

DOSE: 0.2 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-20

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 21

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.6 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-21

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 22

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.6 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-22

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Skin

OBSERVATIONS

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 23

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.6 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-23

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 24

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.6 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-24

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Skin

OBSERVATIONS

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 25

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.6 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-25

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Skin

OBSERVATIONS

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 26

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.6 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-26

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 27

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.6 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-27

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Mild

SOA Epidermis

Hyperplasia

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 28

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.6 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-28

OBSERVATIONS

Skin

SOA Epidermis

Hyperplasia

Minimal

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 29

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0.6 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-29

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 30

TRT#: 3
DOSE: 0.6 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-30

OBSERVATIONS

Skin

SOA Epidermis
SOA Epidermis

Hyperkeratosis
Hyperplasia

Minimal
Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 31	TRT#: 4 DOSE: 2.0 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: MB402M-31
OBSERVATIONS			
Skin	SOA Epidermis SOA Epidermis	Hyperkeratosis Hyperplasia	Minimal Minimal
Note: control skin is normal			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 32

TRT#: 4

SEX: Male

DAY ON TEST: 93

DOSE: 2.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-32

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Dermis, Sebaceous Gl

Hyperplasia

Minimal

SOA Epidermis

Hyperplasia

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 33	TRT#: 4 DOSE: 2.0 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: MB402M-33
OBSERVATIONS			
Skin	SOA Epidermis SOA Epidermis	Hyperkeratosis Hyperplasia	Minimal Minimal
Note: control skin is normal			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 34

TRT#: 4

SEX: Male

DAY ON TEST: 93

DOSE: 2.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-34

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 35

TRT#: 4

SEX: Male

DAY ON TEST: 93

DOSE: 2.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-35

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 36

TRT#: 4

SEX: Male

DAY ON TEST: 93

DOSE: 2.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-36

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Skin

OBSERVATIONS

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 37

TRT#: 4

SEX: Male

DAY ON TEST: 93

DOSE: 2.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-37

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 38

TRT#: 4
DOSE: 2.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-38

OBSERVATIONS

Skin

SOA Epidermis
SOA Dermis, Sebaceous Gl
SOA Epidermis
SOA Dermis

Hyperkeratosis
Hyperplasia
Hyperplasia
Inflammation

Minimal
Minimal
Minimal
Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 39

TRT#: 4

SEX: Male

DAY ON TEST: 93

DOSE: 2.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-39

OBSERVATIONS

Skin

SOA Epidermis

Hyperplasia

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 40

TRT#: 4

SEX: Male

DAY ON TEST: 93

DOSE: 2.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-40

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Dermis, Sebaceous Gl

Hyperplasia

Minimal

SOA Epidermis

Hyperplasia

Minimal

SOA Dermis

Inflammation

Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 41

TRT#: 5
DOSE: 6.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-41

OBSERVATIONS

Skin

SOA Epidermis
SOA Dermis, Sebaceous Gl
SOA Epidermis
SOA Dermis

Hyperkeratosis
Hyperplasia
Hyperplasia
Inflammation

Mild
Mild
Mild
Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 42

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 6.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-42

OBSERVATIONS

Skin

Control Epider

Hyperkeratosis

Minimal

SOA Epidermis

Hyperkeratosis

Mild

SOA Dermis, Sebaceous Gl

Hyperplasia

Minimal

SOA Epidermis

Hyperplasia

Mild

SOA Dermis

Inflammation

Chronic Active, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 43

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 6.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-43

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Mild

SOA Dermis, Sebaceous Gl

Hyperplasia

Minimal

SOA Epidermis

Hyperplasia

Minimal

SOA Dermis

Inflammation

Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 44

TRT#: 5
DOSE: 6.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-44

OBSERVATIONS

Skin

SOA Epidermis
SOA Dermis, Sebaceous Gl
SOA Epidermis
SOA Dermis

Hyperkeratosis
Hyperplasia
Hyperplasia
Inflammation

Mild
Minimal
Minimal
Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 45

TRT#: 5
DOSE: 6.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-45

OBSERVATIONS

Skin

SOA Epidermis
SOA Dermis, Sebaceous Gl
SOA Epidermis
SOA Dermis

Hyperkeratosis
Hyperplasia
Hyperplasia
Inflammation

Minimal
Minimal
Minimal
Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 46

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 6.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-46

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Mild

SOA Dermis, Sebaceous Gl

Hyperplasia

Minimal

SOA Epidermis

Hyperplasia

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 47

TRT#: 5
DOSE: 6.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-47

OBSERVATIONS

Skin

SOA Epidermis
SOA Dermis, Sebaceous Gl
SOA Epidermis
SOA Dermis

Hyperkeratosis
Hyperplasia
Hyperplasia
Inflammation

Minimal
Minimal
Minimal
Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 48	TRT#: 5	SEX: Male	DAY ON TEST: 93
	DOSE: 6.0 MG/KG	DISP: Terminal Sacrifice	HISTO: MB402M-48

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye

OBSERVATIONS

Eye

Note: TGL1 - no corresponding lesion

Liver

[Hepatodiaphragmatic Nodule TGLS = 2-13]

Skin

SOA Epidermis

SOA Dermis, Sebaceous Gland

SOA Epidermis

SOA Dermis

Hepatodiaphragmatic Nodule

Hyperkeratosis

Hyperplasia

Hyperplasia

Inflammation

Mild

Minimal

Minimal

Minimal

Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 49

TRT#: 5
DOSE: 6.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-49

OBSERVATIONS

Skin

SOA Epidermis
SOA Dermis, Sebaceous Gl
SOA Epidermis
SOA Dermis

Hyperkeratosis
Hyperplasia
Hyperplasia
Inflammation

Minimal
Minimal
Minimal
Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 50

TRT#: 5
DOSE: 6.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-50

OBSERVATIONS

Liver		Hepatodiaphragmatic Nodule	Mild
[Hepatodiaphragmatic Nodule TGLS = 1-13]			
Skin	SOA Epidermis	Hyperkeratosis	Minimal
	SOA Dermis, Sebaceous Gl	Hyperplasia	Minimal
	SOA Epidermis	Hyperplasia	Mild
	SOA Dermis	Inflammation	Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 51

TRT#: 6

SEX: Male

DAY ON TEST: 93

DOSE: 18.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-51

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex

Adrenal Medulla

Blood Vessel

Bone

Bone Marrow

Brain

Epididymis

Esophagus

Eye

Heart

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

Nose

Pancreas

Parathyroid Gland

Pituitary Gland

Preputial Gland

Prostate

Salivary Glands

Seminal Vesicle

Spleen

Stomach, Forestomach

Stomach, Glandular

Testes

Thymus

Thyroid Gland

Trachea

Urinary Bladder

MISSING

Lymph Node, Mandibular

Mammary Gland

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Mild

SOA Dermis, Sebaceous Gl

Hyperplasia

Minimal

SOA Epidermis

Hyperplasia

Minimal

SOA Dermis

Inflammation

Chronic Active, Focal, Minimal

Note: control skin normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 52	TRT#: 6	SEX: Male	DAY ON TEST: 93
	DOSE: 18.0 MG/KG	DISP: Terminal Sacrifice	HISTO: MB402M-52

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Eye	Heart	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	Pancreas
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node, Mandibular	Parathyroid Gland
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OBSERVATIONS

Skin	SOA Epidermis	Hyperkeratosis	Mild
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Note: control skin normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 53	TRT#: 6	SEX: Male	DAY ON TEST: 93
	DOSE: 18.0 MG/KG	DISP: Terminal Sacrifice	HISTO: MB402M-53

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Eye	Heart	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	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node, Mandibular	Mammary Gland	Preputial Gland
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OBSERVATIONS

Pancreas		Infiltration Cellular	Lymphocyte, Focal, Minimal
Skin	SOA Epidermis	Hyperkeratosis	Minimal
	SOA Dermis, Sebaceous Gl	Hyperplasia	Minimal
	SOA Epidermis	Hyperplasia	Minimal
	SOA Dermis	Inflammation	Chronic Active, Focal, Mild

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 54

TRT#: 6

SEX: Male

DAY ON TEST: 93

DOSE: 18.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-54

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Eye	Heart	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	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node, Mandibular

OBSERVATIONS

Lymph Node [Hyperplasia TGLS = 1-13]	Deep Cervical	Hyperplasia	Mild
Skin	SOA Epidermis	Hyperkeratosis	Minimal
	SOA Dermis, Sebaceous Gl	Hyperplasia	Mild
	SOA Epidermis	Hyperplasia	Mild
	SOA Dermis	Inflammation	Chronic Active, Focal, Minimal

Note: control skin normal

[Hyperplasia TGLS = 2-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 55

TRT#: 6

SEX: Male

DAY ON TEST: 93

DOSE: 18.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-55

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Eye	Heart	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	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node, Mandibular	Mammary Gland	Preputial Gland
------------------------	---------------	-----------------

OBSERVATIONS

Skin	SOA Epidermis	Hyperkeratosis	Mild
	SOA Dermis, Sebaceous Gl	Hyperplasia	Minimal
	SOA Epidermis	Hyperplasia	Mild
	SOA Dermis	Inflammation	Chronic Active, Focal, Minimal

Note: control skin normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 56	TRT#: 6	SEX: Male	DAY ON TEST: 93
	DOSE: 18.0 MG/KG	DISP: Terminal Sacrifice	HISTO: MB402M-56

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Eye	Heart	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	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node, Mandibular

OBSERVATIONS

Skin	Control Epider	Hyperkeratosis	Minimal
	SOA Epidermis	Hyperkeratosis	Mild
	SOA Dermis, Sebaceous Gl	Hyperplasia	Mild
	SOA Epidermis	Hyperplasia	Mild
	SOA Dermis	Inflammation	Chronic Active, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 57

TRT#: 6

SEX: Male

DAY ON TEST: 93

DOSE: 18.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-57

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Eye	Heart	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	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node, Mandibular	Mammary Gland
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OBSERVATIONS

Liver		Hepatodiaphragmatic Nodule	Mild
[Hepatodiaphragmatic Nodule TGLS = 1-6]			
Preputial Gland		Ectasia	Mild
Skin	SOA Epidermis	Hyperkeratosis	Mild
	SOA Dermis, Sebaceous Gl	Hyperplasia	Minimal
	SOA Epidermis	Hyperplasia	Mild
	SOA Dermis	Inflammation	Chronic Active, Focal, Minimal

Note: control skin normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 58

TRT#: 6

SEX: Male

DAY ON TEST: 93

DOSE: 18.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-58

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Eye
Heart	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	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Adrenal Medulla	Lymph Node, Mandibular
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OBSERVATIONS

Skin	Control Epider	Hyperkeratosis	Minimal
	SOA Epidermis	Hyperkeratosis	Mild
	SOA Dermis, Sebaceous Gl	Hyperplasia	Mild
	SOA Epidermis	Hyperplasia	Mild
	SOA Dermis	Inflammation	Chronic Active, Focal, Mild
	Testes	Germinal Epith	Degeneration

[Degeneration TGLS = 1-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 59	TRT#: 6	SEX: Male	DAY ON TEST: 93
	DOSE: 18.0 MG/KG	DISP: Terminal Sacrifice	HISTO: MB402M-59

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Eye	Heart	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	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

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

OBSERVATIONS

Skin	SOA Epidermis	Exudate	Mild
	Control Epider	Hyperkeratosis	Minimal
	SOA Epidermis	Hyperkeratosis	Mild
	SOA Dermis, Sebaceous Gl	Hyperplasia	Mild
	SOA Epidermis	Hyperplasia	Mild
	SOA Dermis	Inflammation	Chronic Active, Focal, Minimal
	SOA Epidermis	Parakeratosis	Focal, Minimal

[Hyperplasia TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 60	TRT#: 6	SEX: Male	DAY ON TEST: 93
	DOSE: 18.0 MG/KG	DISP: Terminal Sacrifice	HISTO: MB402M-60

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Eye
Heart	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
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Adrenal Medulla	Lymph Node, Mandibular	Mammary Gland
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OBSERVATIONS

Skin	SOA Epidermis	Exudate	Mild
	Control Epider	Hyperkeratosis	Minimal
	SOA Epidermis	Hyperkeratosis	Mild
	Control Epider	Hyperplasia	Minimal
	SOA Dermis, Sebaceous Gl	Hyperplasia	Minimal
	SOA Epidermis	Hyperplasia	Mild
	SOA Dermis	Inflammation	Chronic Active, Focal, Minimal

[Hyperplasia TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 61

TRT#: 7

SEX: Female

DAY ON TEST: 93

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB402M-61

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex

Adrenal Medulla

Blood Vessel

Bone

Bone Marrow

Brain

Esophagus

Eye

Heart

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

Parathyroid Gland

Pituitary Gland

Salivary Glands

Skin

Spleen

Stomach, Forestomach

Stomach, Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Uterus

MISSING

Clitoral Gland

Lymph Node, Mandibular

OBSERVATIONS

Pancreas

Infiltration Cellular

Lymphocyte, Focal, Minimal

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 62	TRT#: 7	SEX: Female	DAY ON TEST: 93
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: MB402M-62

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Clitoral Gland	Esophagus
Eye	Heart	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	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

Liver	Inflammation	Chronic Active, Focal, Minimal
Skin		

Note: control and SOA

PRIMARY CAUSE OF DEATH -

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 63

TRT#: 7

SEX: Female

DAY ON TEST: 93

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB402M-63

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Clitoral Gland	Esophagus
Eye	Heart	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, Mandibular	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	Uterus		

OBSERVATIONS

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 64

TRT#: 7

SEX: Female

DAY ON TEST: 93

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB402M-64

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex

Adrenal Medulla

Blood Vessel

Bone

Bone Marrow

Brain

Clitoral Gland

Esophagus

Eye

Heart

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

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

Liver

Hepatodiaphragmatic Nodule

Minimal

Inflammation

Chronic Active, Focal, Minimal

[Hepatodiaphragmatic Nodule TGLS = 1-6]

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 65

TRT#: 7

SEX: Female

DAY ON TEST: 93

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB402M-65

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, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Kidney	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	Uterus	

MISSING

Lymph Node, Mandibular

OBSERVATIONS

Heart	Inflammation	Chronic, Focal, Minimal
Liver	Inflammation	Chronic Active, Focal, Minimal
Skin		

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 66	TRT#: 7	SEX: Female	DAY ON TEST: 93
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: MB402M-66

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Esophagus	Eye
Heart	Intestine Large, Colon	Intestine Small, Duodenum	Islets, Pancreatic
Kidney	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	Uterus	

MISSING

Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

Intestine Large, Cecum	Intestine Large, Rectum	Intestine Small, Ileum	Intestine Small, Jejunum
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OBSERVATIONS

Clitoral Gland		Infiltration Cellular	Lymphocyte, Focal, Minimal
Liver		Inflammation	Chronic Active, Focal, Mild
Skin			

Note: control and SOA

PRIMARY CAUSE OF DEATH -

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 67

TRT#: 7

SEX: Female

DAY ON TEST: 93

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB402M-67

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Clitoral Gland	Esophagus
Eye	Heart	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
Uterus			

MISSING

Lymph Node, Mandibular

OBSERVATIONS

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 68

TRT#: 7

SEX: Female

DAY ON TEST: 93

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB402M-68

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Clitoral Gland	Esophagus
Eye	Heart	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
Uterus			

MISSING

Lymph Node, Mandibular

OBSERVATIONS

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 69	TRT#: 7	SEX: Female	DAY ON TEST: 93
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: MB402M-69

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Esophagus	Eye
Heart	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	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Clitoral Gland	Lymph Node, Mandibular
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OBSERVATIONS

Eye		
Note: only one eye submitted		
Pancreas	Infiltration Cellular	Lymphocyte, Focal, Minimal
Skin		
Note: control and SOA		
Uterus	Hydrometra	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 70

TRT#: 7

SEX: Female

DAY ON TEST: 93

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB402M-70

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Clitoral Gland	Esophagus
Eye	Heart	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

Liver	Inflammation	Chronic Active, Focal, Mild
Nose	Infiltration Cellular	Lymphocyte, Minimal
Skin		

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 71

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 0.2 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-71

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Skin

OBSERVATIONS

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 72	TRT#: 8	SEX: Female	DAY ON TEST: 93
	DOSE: 0.2 MG/KG	DISP: Terminal Sacrifice	HISTO: MB402M-72

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Skin

OBSERVATIONS

Mesentery [Necrosis TGLS = 1-13]	Fat	Necrosis	Focal, Marked
Skin Note: control skin is normal			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:30
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 73

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 0.2 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-73

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Skin

OBSERVATIONS

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 74

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 0.2 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-74

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Skin

OBSERVATIONS

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:30

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 75

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 0.2 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-75

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Skin

OBSERVATIONS

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 76

TRT#: 8
DOSE: 0.2 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-76

OBSERVATIONS

Skin
Note: control skin is normal

SOA Epidermis

Hyperkeratosis

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 77	TRT#: 8	SEX: Female	DAY ON TEST: 93
	DOSE: 0.2 MG/KG	DISP: Terminal Sacrifice	HISTO: MB402M-77

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Skin

OBSERVATIONS

Lymph Node	Deep Cervical	Hyperplasia	Minimal
[Hyperplasia TGLS = 1-13]			
Skin			
Note: control and SOA			

PRIMARY CAUSE OF DEATH

-

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 78

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 0.2 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-78

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 79	TRT#: 8 DOSE: 0.2 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: MB402M-79
OBSERVATIONS			
Lymph Node [Hyperplasia TGLS = 1-13]	Deep Cervical	Hyperplasia	Mild
Skin Note: control skin is normal	SOA Epidermis	Hyperkeratosis	Minimal
<hr/>			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 80

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 0.2 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-80

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 81

TRT#: 9

SEX: Female

DAY ON TEST: 93

DOSE: 0.6 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-81

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 82	TRT#: 9	SEX: Female	DAY ON TEST: 93
	DOSE: 0.6 MG/KG	DISP: Terminal Sacrifice	HISTO: MB402M-82

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Skin

OBSERVATIONS

Liver	Hepatodiaphragmatic Nodule	Mild
[Hepatodiaphragmatic Nodule TGLS = 1-13]		
Skin		
Note: control and SOA		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 83

TRT#: 9

SEX: Female

DAY ON TEST: 93

DOSE: 0.6 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-83

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Skin

OBSERVATIONS

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 84

TRT#: 9
DOSE: 0.6 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-84

OBSERVATIONS

Skin

SOA Epidermis
SOA Dermis

Hyperkeratosis
Inflammation

Minimal
Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 85

TRT#: 9

SEX: Female

DAY ON TEST: 93

DOSE: 0.6 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-85

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 86

TRT#: 9

SEX: Female

DAY ON TEST: 93

DOSE: 0.6 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-86

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Skin

OBSERVATIONS

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 87

TRT#: 9

SEX: Female

DAY ON TEST: 93

DOSE: 0.6 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-87

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 88

TRT#: 9

SEX: Female

DAY ON TEST: 93

DOSE: 0.6 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-88

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Skin

OBSERVATIONS

Skin

Note: control and SOA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 89

TRT#: 9

SEX: Female

DAY ON TEST: 93

DOSE: 0.6 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-89

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Dermis

Inflammation

Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 90

TRT#: 9

SEX: Female

DAY ON TEST: 93

DOSE: 0.6 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-90

OBSERVATIONS

Liver [Hepatodiaphragmatic Nodule TGLS = 1-13] Hepatodiaphragmatic Nodule Minimal

Skin SOA Epidermis Hyperkeratosis Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 91

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 2.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-91

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Minimal

SOA Dermis

Inflammation

Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 92

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 2.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-92

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Mild

SOA Epidermis

Hyperplasia

Minimal

SOA Dermis

Inflammation

Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 93

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 2.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-93

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Mild

SOA Epidermis

Hyperplasia

Minimal

SOA Dermis

Inflammation

Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 94

TRT#: 10
DOSE: 2.0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-94

OBSERVATIONS

Lymph Node
[Hyperplasia TGLS = 1-13]

Hyperplasia

Minimal

Skin

SOA Epidermis
SOA Epidermis
SOA Dermis

Hyperkeratosis
Hyperplasia
Inflammation

Mild
Minimal
Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 95

TRT#: 10
DOSE: 2.0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-95

OBSERVATIONS

Skin

SOA Epidermis
SOA Epidermis
SOA Dermis

Hyperkeratosis
Hyperplasia
Inflammation

Mild
Minimal
Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 96

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 2.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-96

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Mild

SOA Epidermis

Hyperplasia

Minimal

SOA Dermis

Inflammation

Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 97

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 2.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-97

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Minimal

SOA Dermis

Inflammation

Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 98

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 2.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-98

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Minimal

SOA Dermis

Inflammation

Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 99

TRT#: 10

SEX: Female

DAY ON TEST: 91

DOSE: 2.0 MG/KG

DISP: Natural Death

HISTO: MB402M-99

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Brain	Esophagus	Heart	Kidney
Mammary Gland	Nose	Parathyroid Gland	Stomach, Forestomach
Stomach, Glandular	Urinary Bladder		

MISSING

Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

Bone Marrow	Clitoral Gland	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
Pancreas	Pituitary Gland	Salivary Glands	Spleen
Thymus	Thyroid Gland	Trachea	Uterus

OBSERVATIONS

Bone			
Note: no articular surface in sections			
Liver		Hepatodiaphragmatic Nodule	Focal, Minimal
[Hepatodiaphragmatic Nodule TGLS = 1-13]			
Lung	Alveolus	Inflammation	Diffuse, Moderate
Skin	SOA Epidermis	Hyperkeratosis	Mild
	SOA Epidermis	Hyperplasia	Minimal
	SOA Dermis	Inflammation	Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 100

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 2.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-100

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Minimal

SOA Dermis

Inflammation

Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 101

TRT#: 11

SEX: Female

DAY ON TEST: 93

DOSE: 6.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-101

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 102

TRT#: 11
DOSE: 6.0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-102

OBSERVATIONS

Ovary
[Cyst TGLS = 1-9]

Cyst

Mild

Skin

SOA Epidermis
SOA Epidermis
SOA Dermis

Hyperkeratosis
Hyperplasia
Inflammation

Minimal
Minimal
Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 103

TRT#: 11

SEX: Female

DAY ON TEST: 93

DOSE: 6.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-103

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Minimal

SOA Dermis

Inflammation

Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 104

TRT#: 11
DOSE: 6.0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-104

OBSERVATIONS

Skin

SOA Epidermis
SOA Dermis, Sebaceous Gl
SOA Epidermis
SOA Dermis

Hyperkeratosis
Hyperplasia
Hyperplasia
Inflammation

Minimal
Minimal
Mild
Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 105

TRT#: 11
DOSE: 6.0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-105

OBSERVATIONS

Skin

SOA Epidermis
SOA Dermis, Sebaceous Gl
SOA Epidermis
SOA Dermis

Hyperkeratosis
Hyperplasia
Hyperplasia
Inflammation

Minimal
Minimal
Mild
Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 106

TRT#: 11

SEX: Female

DAY ON TEST: 93

DOSE: 6.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-106

OBSERVATIONS

Skin

SOA Epidermis

Hyperkeratosis

Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 107

TRT#: 11
DOSE: 6.0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-107

OBSERVATIONS

Lymph Node
[Hyperplasia TGLS = 1-13]

Deep Cervical

Hyperplasia

Minimal

Skin
Note: control skin is normal

SOA Epidermis

Hyperkeratosis

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 108

TRT#: 11
DOSE: 6.0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-108

OBSERVATIONS

Mesentery
[Necrosis TGLS = 1-13]

Fat

Necrosis

Focal, Marked

Skin

SOA Epidermis
SOA Epidermis
SOA Dermis

Hyperkeratosis
Hyperplasia
Inflammation

Minimal
Minimal
Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 109

TRT#: 11
DOSE: 6.0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-109

OBSERVATIONS

Skin

SOA Epidermis
SOA Epidermis
SOA Dermis

Hyperkeratosis
Hyperplasia
Inflammation

Mild
Minimal
Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 110

TRT#: 11
DOSE: 6.0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: MB402M-110

OBSERVATIONS

Skin

SOA Epidermis
SOA Dermis

Hyperkeratosis
Inflammation

Minimal
Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 111

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 18.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-111

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Clitoral Gland	Esophagus
Eye	Heart	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	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Lymph Node, Mandibular

OBSERVATIONS

Liver		Infiltration Cellular	Mononuclear CI, Focal, Minimal
Skin	SOA Epidermis	Hyperkeratosis	Minimal
	SOA Epidermis	Hyperplasia	Minimal
	SOA Dermis	Inflammation	Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 112

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 18.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-112

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Esophagus	Eye
Heart	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	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Lymph Node, Mandibular

OBSERVATIONS

Clitoral Gland		Inflammation	Chronic, Focal, Minimal
Liver		Inflammation	Chronic Active, Focal, Minimal
Skin	Control Epider	Hyperkeratosis	Minimal
	SOA Epidermis	Hyperkeratosis	Minimal
	SOA Epidermis	Hyperplasia	Mild
	SOA Dermis	Inflammation	Chronic Active, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 113

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 18.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Eye	Heart
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	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Adrenal Medulla	Clitoral Gland	Lymph Node, Mandibular
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OBSERVATIONS

Skin	SOA Epidermis	Hyperkeratosis	Mild
	SOA Epidermis	Hyperplasia	Minimal
	SOA Dermis	Inflammation	Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 114

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 18.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-114

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	Liver
Lung	Lymph Node, Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Pituitary Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Clitoral Gland	Lymph Node, Mandibular	Parathyroid Gland
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OBSERVATIONS

Heart		Inflammation	Chronic, Focal, Minimal
Kidney		Casts Granular	Mild
Ovary			
Note: TGL1 - no corresponding lesion			
Skin	SOA Epidermis	Hyperkeratosis	Mild
	SOA Dermis, Sebaceous Gl	Hyperplasia	Minimal
	SOA Epidermis	Hyperplasia	Mild
	SOA Dermis	Inflammation	Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 115

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 18.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Clitoral Gland	Esophagus
Eye	Heart	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
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Lymph Node, Mandibular

OBSERVATIONS

Skin	SOA Epidermis	Hyperkeratosis	Minimal
	SOA Dermis, Sebaceous Gl	Hyperplasia	Minimal
	SOA Epidermis	Hyperplasia	Minimal
	SOA Dermis	Inflammation	Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 116

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 18.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Clitoral Gland	Esophagus
Eye	Heart	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
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node, Mandibular

OBSERVATIONS

Skin	SOA Epidermis	Hyperplasia	Minimal
	SOA Dermis	Inflammation	Chronic Active, Focal, Minimal
Note: control skin is normal			
Uterus	Bilateral	Hydrometra	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 117

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 18.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-117

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, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Kidney	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Mammary Gland	Nose	Ovary	Pituitary Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Trachea	Urinary Bladder	Uterus

MISSING

Parathyroid Gland	Thyroid Gland
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OBSERVATIONS

Heart		Inflammation	Chronic, Focal, Minimal
Liver		Inflammation	Chronic Active, Focal, Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Focal, Minimal
Skin	SOA Epidermis	Hyperkeratosis	Minimal
	SOA Epidermis	Hyperplasia	Minimal
	SOA Dermis	Inflammation	Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 118

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 18.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Esophagus	Eye
Heart	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	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Lymph Node, Mandibular

OBSERVATIONS

Clitoral Gland		Atrophy	Minimal
Skin	SOA Epidermis	Hyperkeratosis	Minimal
	SOA Epidermis	Hyperplasia	Minimal
	SOA Dermis	Inflammation	Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:31
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 119

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 18.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Esophagus	Eye
Heart	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, Mandibular
Lymph Node, Mesenteric	Mammary Gland	Nose	Ovary
Parathyroid Gland	Pituitary Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Clitoral Gland

OBSERVATIONS

Esophagus			
Note: slide 3			
Pancreas		Atrophy	Focal, Minimal
		Infiltration Cellular	Lymphocyte, Focal, Mild
Skin	SOA Epidermis	Hyperkeratosis	Minimal
	SOA Epidermis	Hyperplasia	Minimal
	SOA Dermis	Inflammation	Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:31

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 120

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 18.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB402M-120

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Clitoral Gland	Esophagus
Eye	Heart	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
Pituitary Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Lymph Node, Mandibular

OBSERVATIONS

Liver		Inflammation	Chronic Active, Focal, Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Focal, Mild
Skin	SOA Epidermis	Hyperkeratosis	Minimal
	SOA Dermis, Sebaceous Gl	Hyperplasia	Minimal
	SOA Epidermis	Hyperplasia	Minimal
	SOA Dermis	Inflammation	Chronic Active, Focal, Minimal

Note: control skin is normal

PRIMARY CAUSE OF DEATH

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**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE