Experiment Number: 97003-01
Test Type: 14-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Date Report Requested: 10/19/2014 Time Report Requested: 16:26:09

First Dose M/F: NA / NA

Lab: MBA

C Number: C97003B

Lock Date: 03/31/1999

Cage Range: All

Date Range: All

Reasons For Removal:

Removal Date Range: All

Treatment Groups: All

Study Gender: Both

PWG Approval Date NONE

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Date Report Requested: 10/19/2014 Time Report Requested: 16:26:09

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male
VEHICLE CONTROL

DAY ON TEST	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	
	7	7	7	7	7	
V VIIIVAVI ID	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	1	2	3	4	5	

*TOTALS

Alimentary System

Liver Χ Hepatodiaphragmatic Nodule

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin

Musculoskeletal System

NONE

Nervous System

+ .. Tissue examined microscopically

M .. Missing tissue

A .. Autolysis precludes evaluation

X ..Lesion present I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

Test Type: 14-DAY

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Date Report Requested: 10/19/2014 Time Report Requested: 16:26:09

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male **VEHICLE CONTROL**

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	1	1	1	1	1
	7	7	7	7	7
V V III V V V I I I I	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	1	2	3	4	5

*TOTALS

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

M .. Missing tissue

X ..Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

^{+ ..} Tissue examined microscopically

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Time Report Requested: 16:26:09

First Dose M/F: NA / NA

Date Report Requested: 10/19/2014

Lab: MBA

F 344/	N Rat	Male
37.5	MG/k	(G

OAY ON TEST ANIMAL ID	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7
ANIMAL ID	0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 1
	6	7	8	9	0

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

+	+	+	+	+	5		
2	3	2	2	2		5	2.2
	3	3	2			3	2.7
			1			1	1.0
1	1	1	1	2		5	1.2
1	2	2		1		4	1.5
	2	2 3 3	2 3 2 3 3	2 3 2 2 3 3 2 1	+ + + + + + 2 3 2 2 2 3 3 2 1 1 1 1 1 2 1 2 2 1	2 3 2 2 2 3 3 2 1	2 3 2 2 2 5 3 3 2 3 3 1 1

M .. Missing tissue

X ..Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

^{+ ..} Tissue examined microscopically

Experiment Number: 97003-01 P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Date Report Requested: 10/19/2014 **Time Report Requested:** 16:26:09

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male 37.5 MG/KG	DAY ON TEST	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	
37.3 WO/NO	ANIMAL ID	0 0 0 0 6	0 0 0 0 7	0 0 0 8	0 0 0 0 9	0 0 0 1 0	*TOTALS
SOA, Necrosis					2		1 2.0
SOA, Parakeratosis			2	2	1		3 1.7
SOA, Sebaceous GI, Hype	erplasia	2	3	3	2	2	5 2.4

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

X ..Lesion present

A .. Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Date Report Requested: 10/19/2014 Time Report Requested: 16:26:09

First Dose M/F: NA / NA

Lab: MBA

F 344	/N Rat Male	
75	MG/KG	

DAY ON TEST	0	0	0	0	0
	1 7	1 7	1 7	1 7	1 7
ANIMAL ID	0 0	0 0 0	0 0 0	0 0 0	0 0
	1 1	1 2	1 3	1 4	1 5

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	+	+	+	+	+	5		
Dermis, SOA, Necrosis					2		1	2.0
Epidermis, SOA, Hyperplasia	1	2	2	3	3		5	2.2
Epidermis, SOA, Necrosis				2	2		2	2.0
SOA, Hyperkeratosis	2	2	2	1	1		5	1.6
SOA, Inflammation, Chronic Active	1	1	2	2	2		5	1.6

+ .. Tissue examined microscopically

M .. Missing tissue

X ..Lesion present I .. Insufficient tissue

A .. Autolysis precludes evaluation BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Date Report Requested: 10/19/2014 Time Report Requested: 16:26:09

First Dose M/F: NA / NA

Lab: MBA

	DAY ON TEST	0	0	0	0	0	
F 344/N Rat Male		0 1	0	0	0	0	
75 MG/KG		7	7	7	7	7	
	ANIMAL ID	0	0	0	0	0	
	ANIMALID	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		1	2	વ	4	5	*TOTALS

3 3 3 2

Musculoskeletal System

SOA, Sebaceous GI, Hyperplasia

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

5 2.4

X ..Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

First Dose M/F: NA / NA

Lab: MBA

Date Report Requested: 10/19/2014

Time Report Requested: 16:26:09

F 344/N Rat Male 150 MG/KG

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	1	1	1	1	1
	7	7	7	7	7
ANIIMAL ID	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
	0	0	0	0	0
	1	1	1	1	2
	6	7	8	9	0

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	+	+	+	+	+	5		
Epidermis, SOA, Hyperplasia	3	2	3	2	3		5	2.6
Epidermis, SOA, Necrosis	4	2	3	2	2		5	2.6
Epidermis, SOA, Ulcer	2	4		3			3	3.0
SOA, Hyperkeratosis	1	1	1	1	1		5	1.0
SOA, Inflammation, Chronic Active	2	3	2	2	2		5	2.2

M .. Missing tissue

X ..Lesion present

A .. Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

^{+ ..} Tissue examined microscopically

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Date Report Requested: 10/19/2014 Time Report Requested: 16:26:09

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male 150 MG/KG	DAY ON TEST	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7		
130 MO/NO	ANIMAL ID	0 0 0 1 6	0 0 0 1 7	0 0 0 1 8	0 0 0 1 9	0 0 0 2 0	*TOTA	LS
SOA, Parakeratosis		1		1	1		3	1.0
SOA, Sebaceous GI, Hyper	plasia	3	2	3	2	2	5	2.4

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

X ..Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Time Report Requested: 16:26:09

Date Report Requested: 10/19/2014

First Dose M/F: NA / NA

Lab: MBA

F 344/	N Rat	Male
300	MG/K	G

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	1	1	1	1	1
A N I I A A I I I I I I I I I I I I I I	7	7	7	7	7
	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
	0	0	0	0	0
	2	2 2	2	2	2 5
	1	2	3	4	5

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	+	+	+	+	+	5		
Epidermis, SOA, Hyperplasia	2	3	1	3	3		5	2.4
Epidermis, SOA, Necrosis	4	4		2	3		4	3.3
Epidermis, SOA, Ulcer	1	2		4	4		4	2.8
SOA, Hyperkeratosis			2	2	2		3	2.0
SOA, Inflammation, Chronic Active	2	3	1	3	3		5	2.4

+ .. Tissue examined microscopically

M .. Missing tissue

A .. Autolysis precludes evaluation

X ..Lesion present I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Date Report Requested: 10/19/2014 Time Report Requested: 16:26:09

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male 300 MG/KG	DAY ON TEST	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7		
300 MG/NG	ANIMAL ID	0 0 0 2 1	0 0 0 2 2	0 0 0 2 3	0 0 0 2 4	0 0 0 2 5	*TOTA	LS
SOA, Parakeratosis						1	1	1.0
SOA, Sebaceous GI, Hyper	rplasia	3	2	2	2	2	5	2.2

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

X ..Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

CAS Number: 35691-65-7

Lab: MBA

Date Report Requested: 10/19/2014

Time Report Requested: 16:26:09

First Dose M/F: NA / NA

F 344/N Rat Male MG/KG

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
ANUMAN ID	1	1	1	1	1
	7	7	7	7	7
	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
	0	0	0	0	0
	2	0 2 7	2	2	3
	2	7	8	9	0

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Spleen

Hematopoietic System

Opicen		-						
Accessory Spleen		Χ					1	
Hematopoietic Cell Proliferation, Diffuse		2					1	2.0
Integumentary System								
Skin	+	+	+	+	+	5		
Epidermis, SOA, Hyperplasia	2	3	3	3	3		5	2.8
Epidermis, SOA, Necrosis	2	2			2		3	2.0
Epidermis, SOA, Ulcer	3	1		4			3	2.7

+ .. Tissue examined microscopically

M .. Missing tissue

X ..Lesion present I .. Insufficient tissue

A .. Autolysis precludes evaluation BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

Experiment Number: 97003-01 P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Date Report Requested: 10/19/2014 Time Report Requested: 16:26:09

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male 600 MG/KG	DAY ON TEST	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7		
	ANIMAL ID	0 0 0 2 6	0 0 0 2 7	0 0 0 2 8	0 0 0 2 9	0 0 0 3 0	*TOTA	LS
SOA, Hyperkeratosis		1	1	2	2	2	5	1.6
SOA, Inflammation, Chron	ic Active	3	2	2	3	2	5	2.4
SOA, Parakeratosis		1					1	1.0
SOA, Sebaceous GI, Hype	erplasia	2	2	2	1	3	5	2.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

END OF MALE DATA

+ .. Tissue examined microscopically

M .. Missing tissue

X ..Lesion present

A .. Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Date Report Requested: 10/19/2014 Time Report Requested: 16:26:09

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female VEHICLE CONTROL

DAY ON TEST	0	0	0	0	0
	1	1	1	1	1
	/	/	/	/	/
ANIMAL ID	0	0	0	0	0
AINIIVIAL ID	0	0	0	0	0
	0	0	0	0	0
	3	3	3	3	3
	1	2	3	4	5

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin + + + + +

Musculoskeletal System

NONE

Nervous System

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

X ..Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

Test Type: 14-DAY

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Date Report Requested: 10/19/2014 Time Report Requested: 16:26:09

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female **VEHICLE CONTROL**

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	1	1	1	1	1
	7	7	7	7	7
ANIMAL ID	0	0	0	0	0
AMIMAL ID	0	0	0	0	0
	0	0	0	0	0
	3	3	3	3	3 5
	1	2	3	4	5

*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

M .. Missing tissue

X ..Lesion present

BLANK .. Not examined microscopically

I .. Insufficient tissue

A .. Autolysis precludes evaluation

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

^{+ ..} Tissue examined microscopically

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Route: SKIN APPLICATION

CAS Number: 35691-65-7

Lab: MBA

Date Report Requested: 10/19/2014

Time Report Requested: 16:26:09

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Test Type: 14-DAY

F 344/	/N Rat	Female
37.5	MG/k	(G

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	7	7	7	7	7	
ANIMAL ID	0	0	0	0	0	
AMIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	3	3	3 8	3	4	
	6	7	8	9	0	

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	+	+	+	+	+	5		
Epidermis, SOA, Hyperplasia	2	3	2	2	1		5	2.0
Epidermis, SOA, Necrosis		1		1			2	1.0
SOA, Hyperkeratosis	2	2	3	2	1		5	2.0
SOA, Inflammation, Chronic Active	1	2	1	1	1		5	1.2
SOA, Parakeratosis		1	1	1			3	1.0

+ .. Tissue examined microscopically

M .. Missing tissue

X ..Lesion present

A .. Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Time Report Requested: 16:26:09 First Dose M/F: NA / NA

Date Report Requested: 10/19/2014

Lab: MBA

F 344/N Rat Female 37.5 MG/KG

Species/Strain: Rat/F 344/N

Test Type: 14-DAY **Route: SKIN APPLICATION**

> DAY ON TEST 0 0 0 0 0 0 *1 7 1 7 1 7* 0 0 0 0 0 0 3 7 ANIMAL ID Õ 0 0 0 3 6 0 0 0 3 3 4 *TOTALS SOA, Sebaceous GI, Hyperplasia 2 1 1 2 1 5 1.4

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

^{+ ..} Tissue examined microscopically

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Route: SKIN APPLICATION

CAS Number: 35691-65-7

Time Report Requested: 16:26:09

Date Report Requested: 10/19/2014

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female 75 MG/KG

Species/Strain: Rat/F 344/N

DAY ON TEST	0	0	0	0	0
	1	1	1	1	1
ANUMALID	7	7	7	7	7
	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
	0	0	0	0	0
	4	4	4	4	4
	1	2	3	4	5

*TOTALS

Alimentary System

Test Type: 14-DAY

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	+	+	+	+	+	5		
Epidermis, SOA, Hyperplasia	2	2	2	2	1		5	1.8
Epidermis, SOA, Necrosis	3	2	2	3			4	2.5
Epidermis, SOA, Ulcer	1		1	1			3	1.0
SOA, Hyperkeratosis	1	2	1		2		4	1.5
SOA, Inflammation, Chronic Active	2	2	2	2			4	2.0

M .. Missing tissue

X ..Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

^{+ ..} Tissue examined microscopically

Experiment Number: 97003-01 P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Date Report Requested: 10/19/2014 Time Report Requested: 16:26:09

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female 75 MG/KG	DAY ON TEST	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7		
To money	ANIMAL ID	0 0 0 4 1	0 0 0 4 2	0 0 0 4 3	0 0 0 4 4	0 0 0 4 5	*TOTAL	_S
SOA, Parakeratosis		1	1	1			3	1.0
SOA, Sebaceous Gl. Hypern	olasia	1	2	1	1	1	5	1.2

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

+ ..Tissue examined microscopically

M .. Missing tissue

X ..Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Date Report Requested: 10/19/2014 Time Report Requested: 16:26:09

First Dose M/F: NA / NA

Lab: MBA

F 344/	N Rat Female
150	MG/KG

						,
DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	7	7	7	7	7	
V V III V V V I I I I	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	4	4	4	4	5	
	6	7	8	9	0	

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	+	+	+	+	+	5		
Epidermis, SOA, Hyperplasia	1	3	2	3	3		5	2.4
Epidermis, SOA, Necrosis		1	2	1	2		4	1.5
Epidermis, SOA, Ulcer			2				1	2.0
SOA, Hyperkeratosis	1	1	1	2	2		5	1.4
SOA, Inflammation, Chronic Active	2	1	3	2	3		5	2.2

+ .. Tissue examined microscopically

M .. Missing tissue

X ..Lesion present

A .. Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Date Report Requested: 10/19/2014 Time Report Requested: 16:26:10

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female 150 MG/KG	DAY ON TEST	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7		
	ANIMAL ID	0 0 0 4 6	0 0 0 4 7	0 0 0 4 8	0 0 0 4 9	0 0 0 5 0	*TOTAL	S
SOA, Parakeratosis		1	1	1	1	2	5 1	1.2
SOA, Sebaceous GI, Hyper	plasia	1	2	1	1	1	5 1	1.2

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

X ..Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

D

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Date Report Requested: 10/19/2014 **Time Report Requested:** 16:26:10

First Dose M/F: NA / NA

Lab: MBA

F 344	/N Rat Female
300	MG/KG

AY ON TEST	0	0	0	0	O
/(1 OIV 1201	Ô	o	o	Ô	Ô
ANIMAL ID	1	1	1	1	1
	7	7	7	7	7
	0	0	0	0	0
AMIMAL ID	0	0	0	0	0
	0	0	0	0	0
	0 5	5 2	5 3	0 5	5 5
	1	2	3	4	5

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	+	+	+	+	+	5		
Dermis, SOA, Necrosis		1					1	1.0
Epidermis, SOA, Hyperplasia	2	2	2	2	2		5	2.0
Epidermis, SOA, Necrosis	2	2	3	2			4	2.3
Epidermis, SOA, Ulcer	3						1	3.0
SOA, Hyperkeratosis	1	1	1	2	2		5	1.4

M .. Missing tissue

X ..Lesion present

A .. Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

^{+ ..} Tissue examined microscopically

Experiment Number: 97003-01 P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Date Report Requested: 10/19/2014 **Time Report Requested:** 16:26:10

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female 300 MG/KG	DAY ON TEST	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7		
	ANIMAL ID	0 0 0 5 1	00052	0 0 0 5 3	0 0 0 5 4	0 0 0 5 5	*TOTAL	_S_
SOA, Inflammation, Chronic Active		3	2	2	2	1	5	2.0
SOA, Parakeratosis		1	2	1	2	2	5	1.6
SOA, Sebaceous GI, Hyperplasia		2	3	2	1	2	5	2.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

M .. Missing tissue

X ..Lesion present

A .. Autolysis precludes evaluation

I ..Insufficient tissue

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

^{+ ..} Tissue examined microscopically

D

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Time Report Requested: 16:26:10

Date Report Requested: 10/19/2014

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female MG/KG

AY ON TEST	0	0	0	0	0
	0	0	0	0	0
	1	1	1	1	1
	7	7	7	7	7
ANIMAL ID	0 0 0 5 6	0 0 0 5 7	0 0 0 5 8	0 0 0 5 9	0 0 0 6 0

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	+	+	+	+	+	5		
Epidermis, SOA, Hyperplasia	3	3	2	3	2		5	2.6
Epidermis, SOA, Necrosis	1	2	2	1			4	1.5
Epidermis, SOA, Ulcer	2	3	2	2			4	2.3
SOA, Hyperkeratosis	3	2	2	2	1		5	2.0
SOA, Inflammation, Chronic Active	2	3	2	2	2		5	2.2

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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

Experiment Number: 97003-01 P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: 35691-65-7

Route: SKIN APPLICATION Species/Strain: Rat/F 344/N

Test Type: 14-DAY

First Dose M/F: NA / NA

Date Report Requested: 10/19/2014

Time Report Requested: 16:26:10

Lab: MBA

F 344/N Rat Female 600 MG/KG	DAY ON TEST	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7			
	ANIMAL ID	00056	0 0 0 5 7	0 0 0 5 8	0 0 0 5 9	0 0 0 6 0	*TOT/	ΑĮ	_S_
SOA, Parakeratosis		3	1		1	1	4		1.5
SOA, Sebaceous GI, Hyper	plasia	2	2	2	2		4		2.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

** END OF REPORT **

+ .. Tissue examined microscopically

M .. Missing tissue

X ..Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

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