

TDMS No. 97003 - 07
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Reqsted: 08/21/2007
Time Report Reqsted: 12:46:31
First Dose M/F: 07/10/02 / 07/11/02
Lab: BAT

F_1.Rev.1_R2

C Number: C97003D
Lock Date: 03/23/2005
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
TDMSE Version: 1.8.0

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF 1,2-Dibromo-2,4-dicyanobutane

MALE RATS

Organ

Adrenal Cortex

Heart
Kidney

Liver

Liver: Bile Duct

Lung

Lung: Alveolus

Nose

Preputial Gland: Duct

Prostate

Skin: Site of Application - Dermis

Skin: Site of Application - Epidermis

Spleen

Stomach, Glandular

Testes

Thyroid Gland: C-Cell

Trachea

FEMALE RATS

Organ

Adrenal Cortex

Clitoral Gland

Morphology

Degeneration Cystic

Hypertrophy

Cardiomyopathy

Cyst

Mineralization

Nephropathy

Degeneration Cystic

Fatty Change

Hematopoietic Cell Proliferation

Inflammation

Hyperplasia

Inflammation

Infiltration Cellular Histiocyte

Inflammation

Cyst

Inflammation

Fibrosis

Inflammation

Hyperkeratosis

Hyperplasia

Necrosis

Hematopoietic Cell Proliferation

Erosion

Atrophy

Hyperplasia

Inflammation

Morphology

Hypertrophy

Hyperplasia

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF 1,2-Dibromo-2,4-dicyanobutane

Eye	Cataract
Eye: Retina	Atrophy
Heart	Cardiomyopathy
Kidney	Nephropathy
Liver	Basophilic Focus
	Inflammation
Liver: Hepatocyte	Hypertrophy
Lung: Alveolus	Infiltration Cellular Histiocyte
Mesentery	Necrosis
Pancreas: Acinus	Atrophy
Pituitary Gland: Pars Distalis	Cyst
	Hyperplasia
Skin: Hair Follicle	Cyst
Skin: Site of Application - Dermis	Inflammation
Skin: Site of Application - Epidermis	Hyperkeratosis
	Hyperplasia
	Necrosis
Thymus	Cyst
Thyroid Gland: C-Cell	Hyperplasia
Uterus	Inflammation

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Adrenal Cortex
 Degeneration Cystic**

LESION RATES

OVERALL (a)	4/50 (8%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	4/42.34	0/38.65	0/41.23	1/46.53
POLY-3 PERCENT (g)	9.5%	0%	0%	2.2%
TERMINAL (d)	3/25 (12%)	0/27 (0%)	0/27 (0%)	1/37 (3%)
FIRST INCIDENCE	605	---	---	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.203N	P=0.062N	P=0.058N	P=0.093N
POLY 3	P=0.248N	P=0.072N	P=0.063N	P=0.151N
POLY 1.5	P=0.263N	P=0.068N	P=0.063N	P=0.163N
POLY 6	P=0.232N	P=0.074N	P=0.063N	P=0.135N
LOGISTIC REGRESSION	P=0.247N	P=0.073N	P=0.064N	P=0.152N
COCH-ARM / FISHERS	P=0.291N	P=0.059N	P=0.059N	P=0.181N
ORDER RESTRICTED	P=0.008N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.014N*	(e)	(e)	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Adrenal Cortex
 Hyperplasia**

LESION RATES

OVERALL (a)	9/50 (18%)	7/50 (14%)	6/50 (12%)	14/50 (28%)
POLY-3 RATE (b)	9/42.26	7/40.50	6/41.36	14/47.08
POLY-3 PERCENT (g)	21.3%	17.3%	14.5%	29.7%
TERMINAL (d)	8/25 (32%)	3/27 (11%)	4/27 (15%)	12/37 (32%)
FIRST INCIDENCE	631	506	699	617

STATISTICAL TESTS

LIFE TABLE	P=0.259	P=0.376N	P=0.238N	P=0.518
POLY 3	P=0.091	P=0.427N	P=0.299N	P=0.251
POLY 1.5	P=0.071	P=0.421N	P=0.298N	P=0.213
POLY 6	P=0.122	P=0.417N	P=0.295N	P=0.313
LOGISTIC REGRESSION	P=0.117	P=0.441N	P=0.277N	P=0.336
COCH-ARM / FISHERS	P=0.051	P=0.393N	P=0.288N	P=0.171
ORDER RESTRICTED	P=0.115	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.140	(e)	(e)	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Adrenal Cortex
 Hypertrophy**

LESION RATES

OVERALL (a)	12/50 (24%)	9/50 (18%)	4/50 (8%)	14/50 (28%)
POLY-3 RATE (b)	12/43.31	9/39.08	4/41.99	14/46.85
POLY-3 PERCENT (g)	27.7%	23%	9.5%	29.9%
TERMINAL (d)	7/25 (28%)	8/27 (30%)	2/27 (7%)	12/37 (32%)
FIRST INCIDENCE	554	605	570	654

STATISTICAL TESTS

LIFE TABLE	P=0.545	P=0.290N	P=0.028N*	P=0.372N
POLY 3	P=0.278	P=0.407N	P=0.028N*	P=0.502
POLY 1.5	P=0.238	P=0.374N	P=0.028N*	P=0.461
POLY 6	P=0.335	P=0.433N	P=0.026N*	P=0.562
LOGISTIC REGRESSION	P=0.354	P=0.394N	P=0.029N*	P=0.553
COCH-ARM / FISHERS	P=0.189	P=0.312N	P=0.027N*	P=0.410
ORDER RESTRICTED	P=0.194	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.216	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Adrenal Cortex
Vacuolization Cytoplasmic

LESION RATES

OVERALL (a)	29/50 (58%)	25/50 (50%)	28/50 (56%)	26/50 (52%)
POLY-3 RATE (b)	29/47.65	25/45.78	28/43.82	26/49.11
POLY-3 PERCENT (g)	60.9%	54.6%	63.9%	52.9%
TERMINAL (d)	12/25 (48%)	11/27 (41%)	19/27 (70%)	16/37 (43%)
FIRST INCIDENCE	451	286	490	612

STATISTICAL TESTS

LIFE TABLE	P=0.051N	P=0.360N	P=0.437N	P=0.059N
POLY 3	P=0.286N	P=0.341N	P=0.466	P=0.279N
POLY 1.5	P=0.343N	P=0.319N	P=0.542	P=0.310N
POLY 6	P=0.214N	P=0.352N	P=0.382	P=0.232N
LOGISTIC REGRESSION	P=0.450N	P=0.189N	P=0.522N	P=0.525N
COCH-ARM / FISHERS	P=0.419N	P=0.274N	P=0.500N	P=0.344N
ORDER RESTRICTED	P=0.327N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.341N	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Adrenal Medulla
 Hyperplasia

LESION RATES

OVERALL (a)	13/50 (26%)	12/50 (24%)	14/50 (28%)	13/50 (26%)
POLY-3 RATE (b)	13/42.99	12/38.81	14/42.72	13/47.57
POLY-3 PERCENT (g)	30.2%	30.9%	32.8%	27.3%
TERMINAL (d)	11/25 (44%)	11/27 (41%)	9/27 (33%)	7/37 (19%)
FIRST INCIDENCE	561	688	584	617

STATISTICAL TESTS

LIFE TABLE	P=0.177N	P=0.430N	P=0.566	P=0.220N
POLY 3	P=0.389N	P=0.570	P=0.492	P=0.471N
POLY 1.5	P=0.474N	P=0.580N	P=0.488	P=0.525N
POLY 6	P=0.281N	P=0.543	P=0.516	P=0.390N
LOGISTIC REGRESSION	P=0.342N	P=0.583	P=0.481	P=0.491N
COCH-ARM / FISHERS	P=0.518	P=0.500N	P=0.500	P=0.590N
ORDER RESTRICTED	P=0.530N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.542N	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Bone Marrow
 Hyperplasia**

LESION RATES

OVERALL (a)	20/50 (40%)	23/50 (46%)	23/50 (46%)	18/50 (36%)
POLY-3 RATE (b)	20/46.17	23/46.26	23/46.47	18/49.37
POLY-3 PERCENT (g)	43.3%	49.7%	49.5%	36.5%
TERMINAL (d)	6/25 (24%)	8/27 (30%)	8/27 (30%)	8/37 (22%)
FIRST INCIDENCE	451	286	490	479

STATISTICAL TESTS

LIFE TABLE	P=0.059N	P=0.329	P=0.402	P=0.140N
POLY 3	P=0.152N	P=0.340	P=0.348	P=0.317N
POLY 1.5	P=0.192N	P=0.338	P=0.337	P=0.361N
POLY 6	P=0.110N	P=0.355	P=0.379	P=0.263N
LOGISTIC REGRESSION	P=0.529N	P=0.501	P=0.369	P=0.478
COCH-ARM / FISHERS	P=0.256N	P=0.343	P=0.343	P=0.418N
ORDER RESTRICTED	P=0.212N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.232N	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Brain
 Hemorrhage

LESION RATES

OVERALL (a)	1/50 (2%)	4/50 (8%)	6/50 (12%)	1/50 (2%)
POLY-3 RATE (b)	1/42.04	4/40.49	6/44.68	1/46.53
POLY-3 PERCENT (g)	2.4%	9.9%	13.4%	2.2%
TERMINAL (d)	0/25 (0%)	1/27 (4%)	0/27 (0%)	1/37 (3%)
FIRST INCIDENCE	696	486	325	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.263N	P=0.162	P=0.062	P=0.684N
POLY 3	P=0.259N	P=0.166	P=0.066	P=0.738N
POLY 1.5	P=0.290N	P=0.169	P=0.061	P=0.748N
POLY 6	P=0.222N	P=0.168	P=0.072	P=0.723N
LOGISTIC REGRESSION	P=0.605	P=0.257	P=0.093	P=0.732N
COCH-ARM / FISHERS	P=0.335N	P=0.181	P=0.056	P=0.753N
ORDER RESTRICTED	P=0.171N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.197N	(e)	(e)	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Brain
 Hydrocephalus**

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/42.45	2/39.08	0/41.23	1/46.58
POLY-3 PERCENT (g)	2.4%	5.1%	0%	2.2%
TERMINAL (d)	0/25 (0%)	1/27 (4%)	0/27 (0%)	0/37 (0%)
FIRST INCIDENCE	562	605	---	717

STATISTICAL TESTS

LIFE TABLE	P=0.463N	P=0.471	P=0.504N	P=0.706N
POLY 3	P=0.536N	P=0.471	P=0.506N	P=0.740N
POLY 1.5	P=0.546N	P=0.480	P=0.504N	P=0.749N
POLY 6	P=0.521N	P=0.467	P=0.506N	P=0.726N
LOGISTIC REGRESSION	P=0.606N	P=0.548	P=0.424N	P=0.687
COCH-ARM / FISHERS	P=0.558N	P=0.500	P=0.500N	P=0.753N
ORDER RESTRICTED	P=0.334N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.359N	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Eye
 Cataract

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/41.99	2/38.79	1/41.72	0/46.53
POLY-3 PERCENT (g)	2.4%	5.2%	2.4%	0%
TERMINAL (d)	0/25 (0%)	1/27 (4%)	0/27 (0%)	0/37 (0%)
FIRST INCIDENCE	709	693	582	---

STATISTICAL TESTS

LIFE TABLE	P=0.177N	P=0.485	P=0.757	P=0.443N
POLY 3	P=0.210N	P=0.472	P=0.760	P=0.480N
POLY 1.5	P=0.221N	P=0.481	P=0.759	P=0.489N
POLY 6	P=0.196N	P=0.469	P=0.760N	P=0.467N
LOGISTIC REGRESSION	P=0.231N	P=0.469	P=0.752N	P=0.475N
COCH-ARM / FISHERS	P=0.235N	P=0.500	P=0.753N	P=0.500N
ORDER RESTRICTED	P=0.189N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.216N	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Eye
 Synechia

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.91	2/38.65	0/41.23	0/46.53
POLY-3 PERCENT (g)	0%	5.2%	0%	0%
TERMINAL (d)	0/25 (0%)	2/27 (7%)	0/27 (0%)	0/37 (0%)
FIRST INCIDENCE	---	728 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.309N	P=0.255	(e)	(e)
POLY 3	P=0.377N	P=0.219	(e)	(e)
POLY 1.5	P=0.380N	P=0.225	(e)	(e)
POLY 6	P=0.368N	P=0.216	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.255	(e)	(e)
COCH-ARM / FISHERS	P=0.380N	P=0.247	(e)	(e)
ORDER RESTRICTED	P=0.210N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.237N	(e)	(e)	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Eye: Retina
 Atrophy

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/41.99	2/38.65	1/41.72	2/46.72
POLY-3 PERCENT (g)	2.4%	5.2%	2.4%	4.3%
TERMINAL (d)	0/25 (0%)	2/27 (7%)	0/27 (0%)	1/37 (3%)
FIRST INCIDENCE	709	728 (T)	582	679

STATISTICAL TESTS

LIFE TABLE	P=0.605	P=0.506	P=0.757	P=0.611
POLY 3	P=0.531	P=0.471	P=0.760	P=0.537
POLY 1.5	P=0.508	P=0.480	P=0.759	P=0.521
POLY 6	P=0.562	P=0.466	P=0.760N	P=0.560
LOGISTIC REGRESSION	P=0.511	P=0.478	P=0.752N	P=0.533
COCH-ARM / FISHERS	P=0.476	P=0.500	P=0.753N	P=0.500
ORDER RESTRICTED	P=0.495	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.511	(e)	(e)	(e)

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 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Harderian Gland
 Hyperplasia

LESION RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/41.91	1/38.65	0/41.23	2/46.53
POLY-3 PERCENT (g)	2.4%	2.6%	0%	4.3%
TERMINAL (d)	1/25 (4%)	1/27 (4%)	0/27 (0%)	2/37 (5%)
FIRST INCIDENCE	728 (T)	728 (T)	---	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.457	P=0.745N	P=0.485N	P=0.636
POLY 3	P=0.370	P=0.743	P=0.503N	P=0.536
POLY 1.5	P=0.354	P=0.748	P=0.503N	P=0.520
POLY 6	P=0.392	P=0.740	P=0.502N	P=0.559
LOGISTIC REGRESSION	P=0.457	P=0.745N	(e)	P=0.636
COCH-ARM / FISHERS	P=0.332	P=0.753N	P=0.500N	P=0.500
ORDER RESTRICTED	P=0.321	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.348	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Harderian Gland
 Inflammation**

LESION RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/42.45	1/39.28	1/41.23	0/46.53
POLY-3 PERCENT (g)	2.4%	2.6%	2.4%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	1/27 (4%)	0/37 (0%)
FIRST INCIDENCE	562	525	728 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.284N	P=0.730	P=0.754N	P=0.483N
POLY 3	P=0.296N	P=0.743	P=0.754	P=0.482N
POLY 1.5	P=0.308N	P=0.749	P=0.756	P=0.490N
POLY 6	P=0.281N	P=0.741	P=0.754	P=0.470N
LOGISTIC REGRESSION	P=0.405N	P=0.640N	P=0.751N	P=0.655N
COCH-ARM / FISHERS	P=0.323N	P=0.753N	P=0.753N	P=0.500N
ORDER RESTRICTED	P=0.297N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.321N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Heart
 Cardiomyopathy**

LESION RATES

OVERALL (a)	46/50 (92%)	46/50 (92%)	49/50 (98%)	46/50 (92%)
POLY-3 RATE (b)	46/48.60	46/46.83	49/49.51	46/49.26
POLY-3 PERCENT (g)	94.7%	98.2%	99%	93.4%
TERMINAL (d)	24/25 (96%)	27/27 (100%)	27/27 (100%)	35/37 (95%)
FIRST INCIDENCE	542	486	325	612

STATISTICAL TESTS

LIFE TABLE	P=0.004N**	P=0.554	P=0.485	P=0.010N**
POLY 3	P=0.272N	P=0.320	P=0.231	P=0.569N
POLY 1.5	P=0.381N	P=0.432	P=0.207	P=0.603N
POLY 6	P=0.188N	P=0.269	P=0.258	P=0.524N
LOGISTIC REGRESSION	P=0.203N	P=0.190	P=0.124	P=0.412N
COCH-ARM / FISHERS	P=0.573N	P=0.643N	P=0.181	P=0.643N
ORDER RESTRICTED	P=0.195N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.205N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Heart: Atrium
 Thrombosis

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/42.55	0/38.65	1/41.47	0/46.53
POLY-3 PERCENT (g)	4.7%	0%	2.4%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/27 (0%)	0/37 (0%)
FIRST INCIDENCE	554	---	665	---

STATISTICAL TESTS

LIFE TABLE	P=0.227N	P=0.269N	P=0.515N	P=0.204N
POLY 3	P=0.230N	P=0.259N	P=0.509N	P=0.218N
POLY 1.5	P=0.244N	P=0.252N	P=0.507N	P=0.226N
POLY 6	P=0.215N	P=0.264N	P=0.509N	P=0.206N
LOGISTIC REGRESSION	P=0.297N	P=0.201N	P=0.477N	P=0.324N
COCH-ARM / FISHERS	P=0.266N	P=0.247N	P=0.500N	P=0.247N
ORDER RESTRICTED	P=0.062N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.079N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Intestine Large, Colon
 Parasite Metazoan

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	0/41.91	1/39.44	2/41.23	3/46.53
POLY-3 PERCENT (g)	0%	2.5%	4.9%	6.5%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	2/27 (7%)	3/37 (8%)
FIRST INCIDENCE	---	433	728 (T)	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.163	P=0.492	P=0.255	P=0.198
POLY 3	P=0.114	P=0.488	P=0.233	P=0.138
POLY 1.5	P=0.101	P=0.491	P=0.234	P=0.130
POLY 6	P=0.132	P=0.487	P=0.234	P=0.152
LOGISTIC REGRESSION	P=0.083	P=0.809	P=0.255	P=0.198
COCH-ARM / FISHERS	P=0.086	P=0.500	P=0.247	P=0.121
ORDER RESTRICTED	P=0.070	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.090	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Intestine Large, Rectum
 Parasite Metazoan

LESION RATES

OVERALL (a)	3/50 (6%)	8/50 (16%)	9/50 (18%)	4/50 (8%)
POLY-3 RATE (b)	3/42.61	8/41.58	9/41.88	4/46.53
POLY-3 PERCENT (g)	7%	19.2%	21.5%	8.6%
TERMINAL (d)	1/25 (4%)	3/27 (11%)	7/27 (26%)	4/37 (11%)
FIRST INCIDENCE	612	384	631	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.202N	P=0.097	P=0.077	P=0.632N
POLY 3	P=0.308N	P=0.088	P=0.053	P=0.548
POLY 1.5	P=0.346N	P=0.091	P=0.055	P=0.527
POLY 6	P=0.262N	P=0.090	P=0.052	P=0.576
LOGISTIC REGRESSION	P=0.432N	P=0.155	P=0.058	P=0.528
COCH-ARM / FISHERS	P=0.402N	P=0.100	P=0.061	P=0.500
ORDER RESTRICTED	P=0.157	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.179	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Islets, Pancreatic
 Hyperplasia**

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	1/41.91	2/38.84	3/41.33	3/46.89
POLY-3 PERCENT (g)	2.4%	5.2%	7.3%	6.4%
TERMINAL (d)	1/25 (4%)	1/27 (4%)	2/27 (7%)	2/37 (5%)
FIRST INCIDENCE	728 (T)	679	702	629

STATISTICAL TESTS

LIFE TABLE	P=0.458	P=0.518	P=0.327	P=0.431
POLY 3	P=0.362	P=0.473	P=0.300	P=0.347
POLY 1.5	P=0.330	P=0.481	P=0.300	P=0.328
POLY 6	P=0.407	P=0.471	P=0.302	P=0.374
LOGISTIC REGRESSION	P=0.379	P=0.470	P=0.308	P=0.328
COCH-ARM / FISHERS	P=0.287	P=0.500	P=0.309	P=0.309
ORDER RESTRICTED	P=0.275	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.302	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Kidney
 Cyst**

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	1/41.91	0/38.65	2/41.29	4/46.53
POLY-3 PERCENT (g)	2.4%	0%	4.8%	8.6%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	0/27 (0%)	4/37 (11%)
FIRST INCIDENCE	728 (T)	---	717	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.100	P=0.485N	P=0.530	P=0.313
POLY 3	P=0.054	P=0.516N	P=0.495	P=0.212
POLY 1.5	P=0.046*	P=0.511N	P=0.495	P=0.197
POLY 6	P=0.065	P=0.519N	P=0.497	P=0.235
LOGISTIC REGRESSION	P=0.090	(e)	P=0.506	P=0.313
COCH-ARM / FISHERS	P=0.037*	P=0.500N	P=0.500	P=0.181
ORDER RESTRICTED	P=0.055	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.073	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Kidney
 Hydronephrosis**

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/41.91	2/38.65	1/41.23	1/46.53
POLY-3 PERCENT (g)	0%	5.2%	2.4%	2.2%
TERMINAL (d)	0/25 (0%)	2/27 (7%)	1/27 (4%)	1/37 (3%)
FIRST INCIDENCE	---	728 (T)	728 (T)	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.597N	P=0.255	P=0.515	P=0.578
POLY 3	P=0.655	P=0.219	P=0.497	P=0.521
POLY 1.5	P=0.637	P=0.225	P=0.497	P=0.512
POLY 6	P=0.670N	P=0.216	P=0.498	P=0.534
LOGISTIC REGRESSION	(e)	P=0.255	P=0.515	P=0.578
COCH-ARM / FISHERS	P=0.614	P=0.247	P=0.500	P=0.500
ORDER RESTRICTED	P=0.253	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.280	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Kidney
 Mineralization

LESION RATES

OVERALL (a)	32/50 (64%)	41/50 (82%)	38/50 (76%)	26/50 (52%)
POLY-3 RATE (b)	32/46.27	41/47.69	38/47.16	26/49.64
POLY-3 PERCENT (g)	69.2%	86%	80.6%	52.4%
TERMINAL (d)	18/25 (72%)	22/27 (82%)	23/27 (85%)	16/37 (43%)
FIRST INCIDENCE	451	286	325	479

STATISTICAL TESTS

LIFE TABLE	P<0.001N**	P=0.111	P=0.284	P=0.012N*
POLY 3	P<0.001N**	P=0.034*	P=0.137	P=0.066N
POLY 1.5	P=0.002N**	P=0.031*	P=0.134	P=0.099N
POLY 6	P<0.001N**	P=0.048*	P=0.151	P=0.036N*
LOGISTIC REGRESSION	P=0.012N*	P=0.028*	P=0.123	P=0.196N
COCH-ARM / FISHERS	P=0.010N**	P=0.035*	P=0.138	P=0.156N
ORDER RESTRICTED	P<0.001N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001N**	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Kidney
 Nephropathy**

LESION RATES

OVERALL (a)	46/50 (92%)	44/50 (88%)	39/50 (78%)	47/50 (94%)
POLY-3 RATE (b)	46/48.46	44/45.60	39/44.81	47/49.29
POLY-3 PERCENT (g)	94.9%	96.5%	87%	95.4%
TERMINAL (d)	24/25 (96%)	27/27 (100%)	27/27 (100%)	35/37 (95%)
FIRST INCIDENCE	542	500	482	612

STATISTICAL TESTS

LIFE TABLE	P=0.009N**	P=0.440N	P=0.091N	P=0.014N*
POLY 3	P=0.587	P=0.567	P=0.120N	P=0.655
POLY 1.5	P=0.442	P=0.682N	P=0.073N	P=0.586
POLY 6	P=0.508N	P=0.430	P=0.276N	P=0.675N
LOGISTIC REGRESSION	P=0.267N	P=0.400	P=0.056N	P=0.549N
COCH-ARM / FISHERS	P=0.287	P=0.370N	P=0.045N*	P=0.500
ORDER RESTRICTED	P=0.227N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.236N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver
 Basophilic Focus

LESION RATES

OVERALL (a)	24/50 (48%)	20/50 (40%)	22/50 (44%)	26/50 (52%)
POLY-3 RATE (b)	24/43.30	20/40.97	22/43.99	26/47.43
POLY-3 PERCENT (g)	55.4%	48.8%	50%	54.8%
TERMINAL (d)	21/25 (84%)	15/27 (56%)	13/27 (48%)	22/37 (60%)
FIRST INCIDENCE	561	500	523	617

STATISTICAL TESTS

LIFE TABLE	P=0.196N	P=0.188N	P=0.325N	P=0.088N
POLY 3	P=0.449	P=0.343N	P=0.381N	P=0.562N
POLY 1.5	P=0.350	P=0.326N	P=0.410N	P=0.522
POLY 6	P=0.529N	P=0.329N	P=0.315N	P=0.434N
LOGISTIC REGRESSION	P=0.548N	P=0.424N	P=0.449N	P=0.385N
COCH-ARM / FISHERS	P=0.232	P=0.273N	P=0.421N	P=0.421
ORDER RESTRICTED	P=0.542N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.552N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver
 Clear Cell Focus

LESION RATES

OVERALL (a)	17/50 (34%)	19/50 (38%)	19/50 (38%)	21/50 (42%)
POLY-3 RATE (b)	17/41.91	19/39.01	19/41.25	21/46.53
POLY-3 PERCENT (g)	40.6%	48.7%	46.1%	45.1%
TERMINAL (d)	17/25 (68%)	18/27 (67%)	18/27 (67%)	21/37 (57%)
FIRST INCIDENCE	728 (T)	629	724	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.150N	P=0.531	P=0.543	P=0.267N
POLY 3	P=0.500	P=0.297	P=0.384	P=0.412
POLY 1.5	P=0.392	P=0.335	P=0.392	P=0.344
POLY 6	P=0.466N	P=0.279	P=0.388	P=0.521
LOGISTIC REGRESSION	P=0.187N	P=0.319	(e)	P=0.267N
COCH-ARM / FISHERS	P=0.266	P=0.418	P=0.418	P=0.268
ORDER RESTRICTED	P=0.440	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.460	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver
 Degeneration Cystic

LESION RATES

OVERALL (a)	6/50 (12%)	3/50 (6%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	6/42.77	3/38.84	4/42.29	1/46.53
POLY-3 PERCENT (g)	14%	7.7%	9.5%	2.2%
TERMINAL (d)	3/25 (12%)	2/27 (7%)	2/27 (7%)	1/37 (3%)
FIRST INCIDENCE	603	679	545	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.032N*	P=0.245N	P=0.358N	P=0.024N*
POLY 3	P=0.045N*	P=0.290N	P=0.376N	P=0.043N*
POLY 1.5	P=0.054N	P=0.274N	P=0.376N	P=0.049N*
POLY 6	P=0.035N*	P=0.301N	P=0.371N	P=0.036N*
LOGISTIC REGRESSION	P=0.062N	P=0.280N	P=0.364N	P=0.055N
COCH-ARM / FISHERS	P=0.071N	P=0.243N	P=0.370N	P=0.056N
ORDER RESTRICTED	P=0.025N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.035N*	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver
 Fatty Change

LESION RATES

OVERALL (a)	6/50 (12%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	6/43.35	0/38.65	1/41.34	2/46.65
POLY-3 PERCENT (g)	13.8%	0%	2.4%	4.3%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	0/27 (0%)	1/37 (3%)
FIRST INCIDENCE	603	---	699	699

STATISTICAL TESTS

LIFE TABLE	P=0.203N	P=0.026N*	P=0.066N	P=0.076N
POLY 3	P=0.237N	P=0.022N*	P=0.063N	P=0.110N
POLY 1.5	P=0.261N	P=0.019N*	P=0.061N	P=0.120N
POLY 6	P=0.210N	P=0.024N*	P=0.065N	P=0.099N
LOGISTIC REGRESSION	P=0.301N	P=0.016N*	P=0.056N	P=0.173N
COCH-ARM / FISHERS	P=0.304N	P=0.013N*	P=0.056N	P=0.134N
ORDER RESTRICTED	P=0.007N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.012N*	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver
 Hematopoietic Cell Proliferation

LESION RATES

OVERALL (a)	5/50 (10%)	5/50 (10%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	5/43.11	5/40.64	1/41.64	1/46.53
POLY-3 PERCENT (g)	11.6%	12.3%	2.4%	2.2%
TERMINAL (d)	2/25 (8%)	2/27 (7%)	0/27 (0%)	1/37 (3%)
FIRST INCIDENCE	603	384	612	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.030N*	P=0.593	P=0.105N	P=0.057N
POLY 3	P=0.039N*	P=0.594	P=0.108N	P=0.084N
POLY 1.5	P=0.044N*	P=0.605	P=0.107N	P=0.092N
POLY 6	P=0.034N*	P=0.587	P=0.109N	P=0.075N
LOGISTIC REGRESSION	P=0.081N	P=0.525N	P=0.092N	P=0.135N
COCH-ARM / FISHERS	P=0.053N	P=0.630N	P=0.102N	P=0.102N
ORDER RESTRICTED	P=0.044N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.057N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver
 Hepatodiaphragmatic Nodule

LESION RATES

OVERALL (a)	6/50 (12%)	8/50 (16%)	9/50 (18%)	3/50 (6%)
POLY-3 RATE (b)	6/44.18	8/40.12	9/43.31	3/46.75
POLY-3 PERCENT (g)	13.6%	19.9%	20.8%	6.4%
TERMINAL (d)	0/25 (0%)	4/27 (15%)	4/27 (15%)	1/37 (3%)
FIRST INCIDENCE	542	541	325	688

STATISTICAL TESTS

LIFE TABLE	P=0.051N	P=0.348	P=0.309	P=0.156N
POLY 3	P=0.078N	P=0.312	P=0.271	P=0.215N
POLY 1.5	P=0.093N	P=0.337	P=0.278	P=0.227N
POLY 6	P=0.062N	P=0.295	P=0.264	P=0.198N
LOGISTIC REGRESSION	P=0.175N	P=0.435	P=0.338	P=0.420N
COCH-ARM / FISHERS	P=0.120N	P=0.387	P=0.288	P=0.243N
ORDER RESTRICTED	P=0.081N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.096N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Liver
 Inflammation**

LESION RATES

OVERALL (a)	32/50 (64%)	34/50 (68%)	32/50 (64%)	35/50 (70%)
POLY-3 RATE (b)	32/46.07	34/43.88	32/45.09	35/47.52
POLY-3 PERCENT (g)	69.5%	77.5%	71%	73.7%
TERMINAL (d)	21/25 (84%)	23/27 (85%)	22/27 (82%)	31/37 (84%)
FIRST INCIDENCE	542	500	482	629

STATISTICAL TESTS

LIFE TABLE	P=0.034N*	P=0.455	P=0.464N	P=0.064N
POLY 3	P=0.498	P=0.253	P=0.530	P=0.409
POLY 1.5	P=0.433	P=0.300	P=0.544	P=0.374
POLY 6	P=0.552N	P=0.234	P=0.527	P=0.468
LOGISTIC REGRESSION	P=0.435N	P=0.244	P=0.540	P=0.587N
COCH-ARM / FISHERS	P=0.338	P=0.417	P=0.582N	P=0.335
ORDER RESTRICTED	P=0.475	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.483	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver
 Mixed Cell Focus

LESION RATES

OVERALL (a)	9/50 (18%)	8/50 (16%)	6/50 (12%)	11/50 (22%)
POLY-3 RATE (b)	9/41.91	8/38.65	6/41.64	11/46.53
POLY-3 PERCENT (g)	21.5%	20.7%	14.4%	23.6%
TERMINAL (d)	9/25 (36%)	8/27 (30%)	4/27 (15%)	11/37 (30%)
FIRST INCIDENCE	728 (T)	728 (T)	645	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.479N	P=0.424N	P=0.235N	P=0.405N
POLY 3	P=0.390	P=0.575N	P=0.288N	P=0.505
POLY 1.5	P=0.337	P=0.551N	P=0.292N	P=0.458
POLY 6	P=0.464	P=0.587N	P=0.274N	P=0.572
LOGISTIC REGRESSION	P=0.527N	P=0.424N	P=0.274N	P=0.405N
COCH-ARM / FISHERS	P=0.268	P=0.500N	P=0.288N	P=0.402
ORDER RESTRICTED	P=0.448	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.467	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver
 Necrosis

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/42.05	0/38.65	1/41.59	1/46.53
POLY-3 PERCENT (g)	4.8%	0%	2.4%	2.2%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/27 (0%)	1/37 (3%)
FIRST INCIDENCE	709	---	629	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.502N	P=0.255N	P=0.497N	P=0.382N
POLY 3	P=0.567N	P=0.256N	P=0.504N	P=0.465N
POLY 1.5	P=0.585N	P=0.250N	P=0.504N	P=0.480N
POLY 6	P=0.545N	P=0.259N	P=0.501N	P=0.443N
LOGISTIC REGRESSION	P=0.581N	P=0.256N	P=0.503N	P=0.430N
COCH-ARM / FISHERS	P=0.614N	P=0.247N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.251N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.277N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver: Bile Duct
 Hyperplasia

LESION RATES

OVERALL (a)	43/50 (86%)	45/50 (90%)	46/50 (92%)	46/50 (92%)
POLY-3 RATE (b)	43/48.45	45/46.94	46/48.49	46/48.88
POLY-3 PERCENT (g)	88.8%	95.9%	94.9%	94.1%
TERMINAL (d)	24/25 (96%)	26/27 (96%)	26/27 (96%)	35/37 (95%)
FIRST INCIDENCE	451	433	482	612

STATISTICAL TESTS

LIFE TABLE	P=0.014N*	P=0.435	P=0.481	P=0.032N*
POLY 3	P=0.372	P=0.153	P=0.216	P=0.265
POLY 1.5	P=0.328	P=0.204	P=0.212	P=0.254
POLY 6	P=0.441	P=0.153	P=0.271	P=0.313
LOGISTIC REGRESSION	P=0.582	P=0.171	P=0.213	P=0.436
COCH-ARM / FISHERS	P=0.272	P=0.380	P=0.262	P=0.262
ORDER RESTRICTED	P=0.135	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.144	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver: Hepatocyte
 Hyperplasia

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/41.91	0/38.65	1/41.23	0/46.53
POLY-3 PERCENT (g)	4.8%	0%	2.4%	0%
TERMINAL (d)	2/25 (8%)	0/27 (0%)	1/27 (4%)	0/37 (0%)
FIRST INCIDENCE	728 (T)	---	728 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.198N	P=0.221N	P=0.473N	P=0.157N
POLY 3	P=0.230N	P=0.255N	P=0.506N	P=0.215N
POLY 1.5	P=0.244N	P=0.250N	P=0.505N	P=0.224N
POLY 6	P=0.215N	P=0.258N	P=0.504N	P=0.201N
LOGISTIC REGRESSION	P=0.198N	(e)	P=0.473N	(e)
COCH-ARM / FISHERS	P=0.266N	P=0.247N	P=0.500N	P=0.247N
ORDER RESTRICTED	P=0.060N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.079N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver: Hepatocyte
 Hypertrophy

LESION RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/41.91	1/39.16	1/41.23	0/46.53
POLY-3 PERCENT (g)	2.4%	2.6%	2.4%	0%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	1/27 (4%)	0/37 (0%)
FIRST INCIDENCE	728 (T)	574	728 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.258N	P=0.755	P=0.745N	P=0.422N
POLY 3	P=0.294N	P=0.746	P=0.757	P=0.479N
POLY 1.5	P=0.307N	P=0.750	P=0.758	P=0.488N
POLY 6	P=0.278N	P=0.745	P=0.759	P=0.466N
LOGISTIC REGRESSION	P=0.322N	P=0.755N	P=0.745N	(e)
COCH-ARM / FISHERS	P=0.323N	P=0.753N	P=0.753N	P=0.500N
ORDER RESTRICTED	P=0.296N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.323N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Lung
 Inflammation**

LESION RATES

OVERALL (a)	13/50 (26%)	4/50 (8%)	10/50 (20%)	13/50 (26%)
POLY-3 RATE (b)	13/42.80	4/39.29	10/42.31	13/47.27
POLY-3 PERCENT (g)	30.4%	10.2%	23.6%	27.5%
TERMINAL (d)	7/25 (28%)	3/27 (11%)	7/27 (26%)	11/37 (30%)
FIRST INCIDENCE	650	519	582	612

STATISTICAL TESTS

LIFE TABLE	P=0.540	P=0.018N*	P=0.284N	P=0.219N
POLY 3	P=0.312	P=0.021N*	P=0.323N	P=0.473N
POLY 1.5	P=0.253	P=0.019N*	P=0.325N	P=0.524N
POLY 6	P=0.394	P=0.022N*	P=0.316N	P=0.405N
LOGISTIC REGRESSION	P=0.328	P=0.024N*	P=0.327N	P=0.421N
COCH-ARM / FISHERS	P=0.181	P=0.016N*	P=0.318N	P=0.590N
ORDER RESTRICTED	P=0.214N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.240N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Lung: Alveolar Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	6/50 (12%)	8/50 (16%)	8/50 (16%)	5/50 (10%)
POLY-3 RATE (b)	6/42.72	8/40.22	8/41.58	5/46.53
POLY-3 PERCENT (g)	14.1%	19.9%	19.2%	10.8%
TERMINAL (d)	3/25 (12%)	5/27 (19%)	6/27 (22%)	5/37 (14%)
FIRST INCIDENCE	631	525	666	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.125N	P=0.385	P=0.422	P=0.280N
POLY 3	P=0.232N	P=0.338	P=0.364	P=0.440N
POLY 1.5	P=0.268N	P=0.352	P=0.371	P=0.466N
POLY 6	P=0.192N	P=0.334	P=0.360	P=0.406N
LOGISTIC REGRESSION	P=0.229N	P=0.357	P=0.376	P=0.416N
COCH-ARM / FISHERS	P=0.323N	P=0.387	P=0.387	P=0.500N
ORDER RESTRICTED	P=0.285N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.308N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Lung: Alveolus
 Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	14/50 (28%)	24/50 (48%)	25/50 (50%)	19/50 (38%)
POLY-3 RATE (b)	14/43.52	24/42.82	25/44.05	19/46.99
POLY-3 PERCENT (g)	32.2%	56.1%	56.8%	40.4%
TERMINAL (d)	8/25 (32%)	16/27 (59%)	17/27 (63%)	16/37 (43%)
FIRST INCIDENCE	552	286	503	679

STATISTICAL TESTS

LIFE TABLE	P=0.110N	P=0.045*	P=0.041*	P=0.523N
POLY 3	P=0.429N	P=0.017*	P=0.014*	P=0.273
POLY 1.5	P=0.506N	P=0.021*	P=0.015*	P=0.238
POLY 6	P=0.329N	P=0.016*	P=0.014*	P=0.330
LOGISTIC REGRESSION	P=0.435N	P=0.021*	P=0.016*	P=0.346
COCH-ARM / FISHERS	P=0.492	P=0.032*	P=0.020*	P=0.198
ORDER RESTRICTED	P=0.045*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.058	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Mammary Gland
 Cyst**

LESION RATES

OVERALL (a)	0/50 (0%)	0/49 (0%)	0/49 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.91	0/37.79	0/40.64	1/46.53
POLY-3 PERCENT (g)	0%	0%	0%	2.2%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/27 (0%)	1/37 (3%)
FIRST INCIDENCE	---	---	---	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.276	(e)	(e)	P=0.578
POLY 3	P=0.241	(e)	(e)	P=0.521
POLY 1.5	P=0.231	(e)	(e)	P=0.512
POLY 6	P=0.254	(e)	(e)	P=0.534
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.578
COCH-ARM / FISHERS	P=0.217	(e)	(e)	P=0.500
ORDER RESTRICTED	P=0.139	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.165	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Mammary Gland
 Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	2/49 (4%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.91	2/37.79	0/40.64	0/46.53
POLY-3 PERCENT (g)	0%	5.3%	0%	0%
TERMINAL (d)	0/25 (0%)	2/27 (7%)	0/27 (0%)	0/37 (0%)
FIRST INCIDENCE	---	728 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.309N	P=0.255	(e)	(e)
POLY 3	P=0.376N	P=0.214	(e)	(e)
POLY 1.5	P=0.378N	P=0.220	(e)	(e)
POLY 6	P=0.368N	P=0.211	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.255	(e)	(e)
COCH-ARM / FISHERS	P=0.379N	P=0.242	(e)	(e)
ORDER RESTRICTED	P=0.206N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.235N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Mammary Gland
 Inflammation**

LESION RATES

OVERALL (a)	3/50 (6%)	0/49 (0%)	2/49 (4%)	2/50 (4%)
POLY-3 RATE (b)	3/41.99	0/37.79	2/40.64	2/46.53
POLY-3 PERCENT (g)	7.1%	0%	4.9%	4.3%
TERMINAL (d)	2/25 (8%)	0/27 (0%)	2/27 (7%)	2/37 (5%)
FIRST INCIDENCE	709	---	728 (T)	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.518N	P=0.119N	P=0.475N	P=0.335N
POLY 3	P=0.611N	P=0.138N	P=0.515N	P=0.453N
POLY 1.5	P=0.626	P=0.133N	P=0.515N	P=0.474N
POLY 6	P=0.579N	P=0.140N	P=0.511N	P=0.424N
LOGISTIC REGRESSION	P=0.533N	P=0.132N	P=0.490N	P=0.370N
COCH-ARM / FISHERS	P=0.580	P=0.125N	P=0.510N	P=0.500N
ORDER RESTRICTED	P=0.271N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.300N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Mesentery
 Necrosis**

LESION RATES

OVERALL (a)	9/10 (90%)	6/6 (100%)	7/10 (70%)	7/9 (78%)
POLY-3 RATE (b)	9/9.79	6/6.00	7/9.37	7/8.17
POLY-3 PERCENT (g)	92%	100%	74.7%	85.7%
TERMINAL (d)	5/5 (100%)	3/3 (100%)	4/5 (80%)	5/5 (100%)
FIRST INCIDENCE	554	500	584	629

STATISTICAL TESTS

LIFE TABLE	P=0.233N	P=0.585N	P=0.368N	P=0.260N
POLY 3	P=0.442N	P=0.696	P=0.335N	P=0.640N
POLY 1.5	P=0.387N	P=0.647	P=0.313N	P=0.566N
POLY 6	P=0.502N	P=0.800	P=0.377N	P=0.722N
LOGISTIC REGRESSION	P=0.265N	P=0.606	P=0.285N	P=0.408N
COCH-ARM / FISHERS	P=0.308N	P=0.625	P=0.291N	P=0.458N
ORDER RESTRICTED	P=0.225N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.270N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Nose
 Inflammation**

LESION RATES

OVERALL (a)	12/50 (24%)	21/50 (42%)	23/50 (46%)	25/50 (50%)
POLY-3 RATE (b)	12/42.79	21/42.45	23/44.13	25/48.21
POLY-3 PERCENT (g)	28%	49.5%	52.1%	51.9%
TERMINAL (d)	6/25 (24%)	12/27 (44%)	13/27 (48%)	18/37 (49%)
FIRST INCIDENCE	650	506	490	617

STATISTICAL TESTS

LIFE TABLE	P=0.364	P=0.064	P=0.041*	P=0.138
POLY 3	P=0.069	P=0.030*	P=0.015*	P=0.015*
POLY 1.5	P=0.042*	P=0.032*	P=0.015*	P=0.009**
POLY 6	P=0.126	P=0.035*	P=0.019*	P=0.029*
LOGISTIC REGRESSION	P=0.058	P=0.026*	P=0.014*	P=0.018*
COCH-ARM / FISHERS	P=0.022*	P=0.044*	P=0.018*	P=0.006**
ORDER RESTRICTED	P=0.011*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.019*	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Pancreas: Acinus Atrophy

LESION RATES

OVERALL (a)	16/50 (32%)	18/50 (36%)	15/50 (30%)	18/50 (36%)
POLY-3 RATE (b)	16/43.43	18/43.06	15/43.41	18/47.11
POLY-3 PERCENT (g)	36.8%	41.8%	34.6%	38.2%
TERMINAL (d)	9/25 (36%)	9/27 (33%)	11/27 (41%)	15/37 (41%)
FIRST INCIDENCE	603	433	325	617

STATISTICAL TESTS

LIFE TABLE	P=0.207N	P=0.425	P=0.441N	P=0.276N
POLY 3	P=0.539N	P=0.399	P=0.501N	P=0.533
POLY 1.5	P=0.512	P=0.395	P=0.501N	P=0.482
POLY 6	P=0.470N	P=0.424	P=0.502N	P=0.577N
LOGISTIC REGRESSION	P=0.511	P=0.378	P=0.517N	P=0.552N
COCH-ARM / FISHERS	P=0.428	P=0.417	P=0.500N	P=0.417
ORDER RESTRICTED	P=0.606N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.612N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Pancreas: Duct
 Cyst**

LESION RATES

OVERALL (a)	9/50 (18%)	9/50 (18%)	5/50 (10%)	7/50 (14%)
POLY-3 RATE (b)	9/43.56	9/39.19	5/41.53	7/46.89
POLY-3 PERCENT (g)	20.7%	23%	12%	14.9%
TERMINAL (d)	3/25 (12%)	7/27 (26%)	4/27 (15%)	6/37 (16%)
FIRST INCIDENCE	552	629	645	629

STATISTICAL TESTS

LIFE TABLE	P=0.123N	P=0.596N	P=0.188N	P=0.184N
POLY 3	P=0.244N	P=0.505	P=0.217N	P=0.331N
POLY 1.5	P=0.280N	P=0.540	P=0.209N	P=0.357N
POLY 6	P=0.203N	P=0.476	P=0.226N	P=0.298N
LOGISTIC REGRESSION	P=0.220N	P=0.533	P=0.200N	P=0.396N
COCH-ARM / FISHERS	P=0.335N	P=0.602N	P=0.194N	P=0.393N
ORDER RESTRICTED	P=0.231N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.251N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Pituitary Gland: Pars Distalis
 Cyst**

LESION RATES

OVERALL (a)	3/50 (6%)	4/50 (8%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	3/42.88	4/39.50	2/41.23	3/46.53
POLY-3 PERCENT (g)	7%	10.1%	4.9%	6.5%
TERMINAL (d)	1/25 (4%)	2/27 (7%)	2/27 (7%)	3/37 (8%)
FIRST INCIDENCE	451	519	728 (T)	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.365N	P=0.498	P=0.481N	P=0.516N
POLY 3	P=0.476N	P=0.455	P=0.518N	P=0.624N
POLY 1.5	P=0.501N	P=0.469	P=0.513N	P=0.641N
POLY 6	P=0.443N	P=0.450	P=0.521N	P=0.598N
LOGISTIC REGRESSION	P=0.534N	P=0.548	P=0.490N	P=0.595
COCH-ARM / FISHERS	P=0.534N	P=0.500	P=0.500N	P=0.661N
ORDER RESTRICTED	P=0.476N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.490N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Pituitary Gland: Pars Distalis
 Hyperplasia**

LESION RATES

OVERALL (a)	17/50 (34%)	15/50 (30%)	19/50 (38%)	16/50 (32%)
POLY-3 RATE (b)	17/44.87	15/43.13	19/43.74	16/47.42
POLY-3 PERCENT (g)	37.9%	34.8%	43.4%	33.7%
TERMINAL (d)	8/25 (32%)	7/27 (26%)	11/27 (41%)	12/37 (32%)
FIRST INCIDENCE	451	486	490	612

STATISTICAL TESTS

LIFE TABLE	P=0.146N	P=0.444N	P=0.478	P=0.149N
POLY 3	P=0.393N	P=0.467N	P=0.375	P=0.421N
POLY 1.5	P=0.445N	P=0.457N	P=0.385	P=0.457N
POLY 6	P=0.331N	P=0.462N	P=0.376	P=0.371N
LOGISTIC REGRESSION	P=0.520N	P=0.362N	P=0.407	P=0.510N
COCH-ARM / FISHERS	P=0.521N	P=0.415N	P=0.418	P=0.500N
ORDER RESTRICTED	P=0.487N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.497N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Preputial Gland: Duct
 Cyst

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.86	0/38.65	0/41.23	0/46.53
POLY-3 PERCENT (g)	4.7%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/27 (0%)	0/37 (0%)
FIRST INCIDENCE	562	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.212N	P=0.274N	P=0.239N	P=0.209N
POLY 3	P=0.214N	P=0.261N	P=0.246N	P=0.219N
POLY 1.5	P=0.223N	P=0.252N	P=0.243N	P=0.227N
POLY 6	P=0.206N	P=0.267N	P=0.247N	P=0.209N
LOGISTIC REGRESSION	P=0.289N	P=0.150N	P=0.175N	P=0.380N
COCH-ARM / FISHERS	P=0.238N	P=0.247N	P=0.247N	P=0.247N
ORDER RESTRICTED	P=0.024N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.034N*	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Prostate
 Inflammation

LESION RATES

OVERALL (a)	40/50 (80%)	36/50 (72%)	37/50 (74%)	39/50 (78%)
POLY-3 RATE (b)	40/48.40	36/47.29	37/45.90	39/48.60
POLY-3 PERCENT (g)	82.7%	76.1%	80.6%	80.2%
TERMINAL (d)	20/25 (80%)	19/27 (70%)	22/27 (82%)	29/37 (78%)
FIRST INCIDENCE	451	286	490	612

STATISTICAL TESTS

LIFE TABLE	P=0.029N*	P=0.350N	P=0.303N	P=0.022N*
POLY 3	P=0.554	P=0.289N	P=0.505N	P=0.482N
POLY 1.5	P=0.523	P=0.274N	P=0.430N	P=0.494N
POLY 6	P=0.537N	P=0.299N	P=0.588N	P=0.458N
LOGISTIC REGRESSION	P=0.515N	P=0.225N	P=0.356N	P=0.427N
COCH-ARM / FISHERS	P=0.481	P=0.241N	P=0.318N	P=0.500N
ORDER RESTRICTED	P=0.504N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.508N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Prostate: Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	18/50 (36%)	19/50 (38%)	11/50 (22%)	19/50 (38%)
POLY-3 RATE (b)	18/43.34	19/40.95	11/41.96	19/47.23
POLY-3 PERCENT (g)	41.5%	46.4%	26.2%	40.2%
TERMINAL (d)	11/25 (44%)	15/27 (56%)	9/27 (33%)	15/37 (41%)
FIRST INCIDENCE	566	486	482	612

STATISTICAL TESTS

LIFE TABLE	P=0.151N	P=0.542	P=0.071N	P=0.182N
POLY 3	P=0.472N	P=0.407	P=0.098N	P=0.535N
POLY 1.5	P=0.545N	P=0.435	P=0.096N	P=0.575
POLY 6	P=0.374N	P=0.394	P=0.098N	P=0.453N
LOGISTIC REGRESSION	P=0.374N	P=0.366	P=0.093N	P=0.436N
COCH-ARM / FISHERS	P=0.462	P=0.500	P=0.093N	P=0.500
ORDER RESTRICTED	P=0.233N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.256N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Skin: Hair Follicle
 Cyst

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.91	1/38.65	0/41.23	1/46.53
POLY-3 PERCENT (g)	0%	2.6%	0%	2.2%
TERMINAL (d)	0/25 (0%)	1/27 (4%)	0/27 (0%)	1/37 (3%)
FIRST INCIDENCE	---	728 (T)	---	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.546	P=0.515	(e)	P=0.578
POLY 3	P=0.487	P=0.484	(e)	P=0.521
POLY 1.5	P=0.475	P=0.489	(e)	P=0.512
POLY 6	P=0.504	P=0.481	(e)	P=0.534
LOGISTIC REGRESSION	(e)	P=0.515	(e)	P=0.578
COCH-ARM / FISHERS	P=0.459	P=0.500	(e)	P=0.500
ORDER RESTRICTED	P=0.271	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.298	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Skin: Site of Application - Dermis
 Fibrosis

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	4/50 (8%)
POLY-3 RATE (b)	0/41.91	0/38.65	0/41.23	4/47.16
POLY-3 PERCENT (g)	0%	0%	0%	8.5%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/27 (0%)	2/37 (5%)
FIRST INCIDENCE	---	---	---	629

STATISTICAL TESTS

LIFE TABLE	P=0.006**	(e)	(e)	P=0.107
POLY 3	P=0.002**	(e)	(e)	P=0.077
POLY 1.5	P=0.002**	(e)	(e)	P=0.069
POLY 6	P=0.003**	(e)	(e)	P=0.089
LOGISTIC REGRESSION	P=0.002**	(e)	(e)	P=0.049*
COCH-ARM / FISHERS	P=0.002**	(e)	(e)	P=0.059
ORDER RESTRICTED	P=0.004**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.004**	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Skin: Site of Application - Dermis
 Inflammation

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	11/50 (22%)	45/50 (90%)
POLY-3 RATE (b)	0/41.91	2/38.65	11/41.58	45/49.48
POLY-3 PERCENT (g)	0%	5.2%	26.5%	91%
TERMINAL (d)	0/25 (0%)	2/27 (7%)	10/27 (37%)	34/37 (92%)
FIRST INCIDENCE	---	728 (T)	631	479

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P=0.255	P<0.001**	P<0.001**
POLY 3	P<0.001**	P=0.219	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.225	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.216	P<0.001**	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P=0.255	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.247	P<0.001**	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Skin: Site of Application - Epidermis
 Hyperkeratosis

LESION RATES

OVERALL (a)	0/50 (0%)	9/50 (18%)	47/50 (94%)	50/50 (100%)
POLY-3 RATE (b)	0/41.91	9/38.81	47/48.51	50/50.00
POLY-3 PERCENT (g)	0%	23.2%	96.9%	100%
TERMINAL (d)	0/25 (0%)	8/27 (30%)	26/27 (96%)	37/37 (100%)
FIRST INCIDENCE	---	688	482	479

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P=0.003**	P<0.001**	P<0.001**
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P=0.002**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Skin: Site of Application - Epidermis
 Hyperplasia

LESION RATES

OVERALL (a)	1/50 (2%)	5/50 (10%)	10/50 (20%)	50/50 (100%)
POLY-3 RATE (b)	1/41.91	5/39.20	10/42.27	50/50.00
POLY-3 PERCENT (g)	2.4%	12.8%	23.7%	100%
TERMINAL (d)	1/25 (4%)	4/27 (15%)	6/27 (22%)	37/37 (100%)
FIRST INCIDENCE	728 (T)	558	523	479

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P=0.112	P=0.008**	P<0.001**
POLY 3	P<0.001**	P=0.085	P=0.004**	P<0.001**
POLY 1.5	P<0.001**	P=0.090	P=0.004**	P<0.001**
POLY 6	P<0.001**	P=0.083	P=0.004**	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P=0.084	P=0.005**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.102	P=0.004**	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Skin: Site of Application - Epidermis
 Necrosis

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	0/41.91	0/38.65	0/41.23	3/47.61
POLY-3 PERCENT (g)	0%	0%	0%	6.3%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/27 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	479

STATISTICAL TESTS

LIFE TABLE	P=0.017*	(e)	(e)	P=0.159
POLY 3	P=0.011*	(e)	(e)	P=0.143
POLY 1.5	P=0.010**	(e)	(e)	P=0.132
POLY 6	P=0.013*	(e)	(e)	P=0.160
LOGISTIC REGRESSION	P=0.002**	(e)	(e)	P=0.037*
COCH-ARM / FISHERS	P=0.009**	(e)	(e)	P=0.121
ORDER RESTRICTED	P=0.013*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.018*	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Skin: Site of Application - Epidermis
 Ulcer

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.91	0/38.65	0/41.23	0/46.53
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/27 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Spleen
 Hematopoietic Cell Proliferation**

LESION RATES

OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/42.52	0/38.65	0/41.23	0/46.53
POLY-3 PERCENT (g)	7.1%	0%	0%	0%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	0/27 (0%)	0/37 (0%)
FIRST INCIDENCE	561	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.103N	P=0.131N	P=0.120N	P=0.080N
POLY 3	P=0.108N	P=0.136N	P=0.124N	P=0.103N
POLY 1.5	P=0.115N	P=0.130N	P=0.122N	P=0.110N
POLY 6	P=0.101N	P=0.140N	P=0.124N	P=0.094N
LOGISTIC REGRESSION	P=0.131N	P=0.119N	P=0.118N	P=0.147N
COCH-ARM / FISHERS	P=0.130N	P=0.121N	P=0.121N	P=0.121N
ORDER RESTRICTED	P=0.006N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.010N**	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Spleen
 Hemorrhage**

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/41.91	2/39.58	2/42.39	1/46.92
POLY-3 PERCENT (g)	0%	5.1%	4.7%	2.1%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/27 (0%)	0/37 (0%)
FIRST INCIDENCE	---	433	503	617

STATISTICAL TESTS

LIFE TABLE	P=0.624N	P=0.224	P=0.235	P=0.537
POLY 3	P=0.640N	P=0.224	P=0.239	P=0.522
POLY 1.5	P=0.648	P=0.228	P=0.237	P=0.513
POLY 6	P=0.610N	P=0.224	P=0.244	P=0.537
LOGISTIC REGRESSION	P=0.412	P=0.334	P=0.324	P=0.399
COCH-ARM / FISHERS	P=0.615	P=0.247	P=0.247	P=0.500
ORDER RESTRICTED	P=0.214	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.242	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Spleen
 Hyperplasia Lymphoid**

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	2/41.91	1/38.65	4/41.65	1/46.53
POLY-3 PERCENT (g)	4.8%	2.6%	9.6%	2.2%
TERMINAL (d)	2/25 (8%)	1/27 (4%)	2/27 (7%)	1/37 (3%)
FIRST INCIDENCE	728 (T)	728 (T)	612	728 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.306N	P=0.473N	P=0.370	P=0.364N
POLY 3	P=0.378N	P=0.528N	P=0.333	P=0.464N
POLY 1.5	P=0.410N	P=0.519N	P=0.333	P=0.480N
POLY 6	P=0.337N	P=0.532N	P=0.339	P=0.441N
LOGISTIC REGRESSION	P=0.359N	P=0.473N	P=0.331	P=0.364N
COCH-ARM / FISHERS	P=0.459N	P=0.500N	P=0.339	P=0.500N
ORDER RESTRICTED	P=0.332N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.359N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Spleen
 Infarct**

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/42.68	2/39.76	0/41.23	0/46.53
POLY-3 PERCENT (g)	2.3%	5%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/27 (0%)	0/37 (0%)
FIRST INCIDENCE	451	541	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.203N	P=0.464	P=0.504N	P=0.500N
POLY 3	P=0.204N	P=0.475	P=0.507N	P=0.483N
POLY 1.5	P=0.209N	P=0.482	P=0.505N	P=0.491N
POLY 6	P=0.195N	P=0.475	P=0.507N	P=0.471N
LOGISTIC REGRESSION	P=0.330N	P=0.751N	P=0.269N	(e)
COCH-ARM / FISHERS	P=0.214N	P=0.500	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.140N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.162N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Stomach, Forestomach
 Edema

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/42.76	0/38.65	0/41.23	1/46.65
POLY-3 PERCENT (g)	4.7%	0%	0%	2.1%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/27 (0%)	0/37 (0%)
FIRST INCIDENCE	554	---	---	699

STATISTICAL TESTS

LIFE TABLE	P=0.578N	P=0.274N	P=0.253N	P=0.443N
POLY 3	P=0.613N	P=0.260N	P=0.245N	P=0.470N
POLY 1.5	P=0.626N	P=0.252N	P=0.243N	P=0.483N
POLY 6	P=0.598N	P=0.266N	P=0.247N	P=0.451N
LOGISTIC REGRESSION	P=0.695	P=0.167N	P=0.189N	P=0.643N
COCH-ARM / FISHERS	P=0.646N	P=0.247N	P=0.247N	P=0.500N
ORDER RESTRICTED	P=0.116N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.138N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Stomach, Forestomach
 Inflammation**

LESION RATES

OVERALL (a)	5/50 (10%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	5/43.42	2/39.45	1/41.34	2/47.05
POLY-3 PERCENT (g)	11.5%	5.1%	2.4%	4.3%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/27 (0%)	0/37 (0%)
FIRST INCIDENCE	562	541	699	612

STATISTICAL TESTS

LIFE TABLE	P=0.191N	P=0.261N	P=0.113N	P=0.150N
POLY 3	P=0.223N	P=0.256N	P=0.112N	P=0.185N
POLY 1.5	P=0.242N	P=0.242N	P=0.108N	P=0.198N
POLY 6	P=0.201N	P=0.266N	P=0.116N	P=0.168N
LOGISTIC REGRESSION	P=0.346N	P=0.161N	P=0.093N	P=0.357N
COCH-ARM / FISHERS	P=0.273N	P=0.218N	P=0.102N	P=0.218N
ORDER RESTRICTED	P=0.066N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.083N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Stomach, Forestomach
 Ulcer**

LESION RATES

OVERALL (a)	3/50 (6%)	2/50 (4%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	3/42.88	2/39.45	2/41.49	3/47.30
POLY-3 PERCENT (g)	7%	5.1%	4.8%	6.3%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/27 (0%)	0/37 (0%)
FIRST INCIDENCE	562	541	691	612

STATISTICAL TESTS

LIFE TABLE	P=0.563N	P=0.543N	P=0.507N	P=0.562N
POLY 3	P=0.592	P=0.538N	P=0.515N	P=0.616N
POLY 1.5	P=0.562	P=0.526N	P=0.510N	P=0.636N
POLY 6	P=0.599N	P=0.545N	P=0.518N	P=0.587N
LOGISTIC REGRESSION	P=0.430	P=0.421N	P=0.488N	P=0.504
COCH-ARM / FISHERS	P=0.519	P=0.500N	P=0.500N	P=0.661N
ORDER RESTRICTED	P=0.588N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.598N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Stomach, Forestomach: Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/41.91	0/38.65	2/41.45	1/46.65
POLY-3 PERCENT (g)	0%	0%	4.8%	2.1%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/27 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	699	699

STATISTICAL TESTS

LIFE TABLE	P=0.459	(e)	P=0.243	P=0.562
POLY 3	P=0.419	(e)	P=0.234	P=0.521
POLY 1.5	P=0.392	(e)	P=0.234	P=0.512
POLY 6	P=0.454	(e)	P=0.236	P=0.535
LOGISTIC REGRESSION	P=0.392	(e)	P=0.234	P=0.508
COCH-ARM / FISHERS	P=0.354	(e)	P=0.247	P=0.500
ORDER RESTRICTED	P=0.168	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.194	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Stomach, Glandular
 Erosion**

LESION RATES

OVERALL (a)	4/50 (8%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	4/42.45	0/38.65	0/41.23	2/46.86
POLY-3 PERCENT (g)	9.4%	0%	0%	4.3%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/27 (0%)	1/37 (3%)
FIRST INCIDENCE	672	---	---	637

STATISTICAL TESTS

LIFE TABLE	P=0.444N	P=0.073N	P=0.068N	P=0.223N
POLY 3	P=0.518N	P=0.072N	P=0.063N	P=0.293N
POLY 1.5	P=0.539N	P=0.068N	P=0.063N	P=0.312N
POLY 6	P=0.492N	P=0.076N	P=0.064N	P=0.268N
LOGISTIC REGRESSION	P=0.543N	P=0.072N	P=0.064N	P=0.348N
COCH-ARM / FISHERS	P=0.571N	P=0.059N	P=0.059N	P=0.339N
ORDER RESTRICTED	P=0.027N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.038N*	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Stomach, Glandular
 Inflammation

LESION RATES

OVERALL (a)	4/50 (8%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	4/43.20	3/38.79	0/41.23	2/46.65
POLY-3 PERCENT (g)	9.3%	7.7%	0%	4.3%
TERMINAL (d)	0/25 (0%)	2/27 (7%)	0/27 (0%)	1/37 (3%)
FIRST INCIDENCE	562	693	---	699

STATISTICAL TESTS

LIFE TABLE	P=0.200N	P=0.524N	P=0.068N	P=0.240N
POLY 3	P=0.264N	P=0.559N	P=0.066N	P=0.302N
POLY 1.5	P=0.280N	P=0.538N	P=0.064N	P=0.317N
POLY 6	P=0.245N	P=0.576N	P=0.068N	P=0.283N
LOGISTIC REGRESSION	P=0.296N	P=0.508N	P=0.051N	P=0.443N
COCH-ARM / FISHERS	P=0.304N	P=0.500N	P=0.059N	P=0.339N
ORDER RESTRICTED	P=0.096N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.115N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Testes
 Atrophy

LESION RATES

OVERALL (a)	10/50 (20%)	7/50 (14%)	3/50 (6%)	14/50 (28%)
POLY-3 RATE (b)	10/42.78	7/40.15	3/41.73	14/47.00
POLY-3 PERCENT (g)	23.4%	17.4%	7.2%	29.8%
TERMINAL (d)	6/25 (24%)	4/27 (15%)	1/27 (4%)	10/37 (27%)
FIRST INCIDENCE	661	286	629	654

STATISTICAL TESTS

LIFE TABLE	P=0.280	P=0.294N	P=0.037N*	P=0.577N
POLY 3	P=0.097	P=0.345N	P=0.036N*	P=0.327
POLY 1.5	P=0.079	P=0.328N	P=0.036N*	P=0.288
POLY 6	P=0.126	P=0.356N	P=0.035N*	P=0.384
LOGISTIC REGRESSION	P=0.105	P=0.329N	P=0.038N*	P=0.400
COCH-ARM / FISHERS	P=0.062	P=0.298N	P=0.036N*	P=0.241
ORDER RESTRICTED	P=0.065	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.083	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Testes: Interstitial Cell
 Hyperplasia

LESION RATES

OVERALL (a)	15/50 (30%)	19/50 (38%)	16/50 (32%)	20/50 (40%)
POLY-3 RATE (b)	15/45.66	19/44.27	16/45.90	20/48.82
POLY-3 PERCENT (g)	32.9%	42.9%	34.9%	41%
TERMINAL (d)	5/25 (20%)	7/27 (26%)	6/27 (22%)	11/37 (30%)
FIRST INCIDENCE	451	433	482	479

STATISTICAL TESTS

LIFE TABLE	P=0.430N	P=0.262	P=0.515	P=0.568
POLY 3	P=0.353	P=0.219	P=0.507	P=0.273
POLY 1.5	P=0.305	P=0.228	P=0.499	P=0.239
POLY 6	P=0.421	P=0.225	P=0.527	P=0.327
LOGISTIC REGRESSION	P=0.094	P=0.370	P=0.556	P=0.077
COCH-ARM / FISHERS	P=0.242	P=0.263	P=0.500	P=0.201
ORDER RESTRICTED	P=0.324	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.345	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Thymus
Cyst**

LESION RATES

OVERALL (a)	0/49 (0%)	0/46 (0%)	0/48 (0%)	0/44 (0%)
POLY-3 RATE (b)	0/41.33	0/35.74	0/39.34	0/40.53
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/26 (0%)	0/26 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Thyroid Gland: C-Cell
 Hyperplasia**

LESION RATES

OVERALL (a)	9/50 (18%)	16/50 (32%)	15/50 (30%)	13/50 (26%)
POLY-3 RATE (b)	9/42.83	16/40.38	15/41.99	13/46.73
POLY-3 PERCENT (g)	21%	39.6%	35.7%	27.8%
TERMINAL (d)	6/25 (24%)	11/27 (41%)	12/27 (44%)	11/37 (30%)
FIRST INCIDENCE	605	519	584	688

STATISTICAL TESTS

LIFE TABLE	P=0.213N	P=0.095	P=0.154	P=0.591
POLY 3	P=0.503N	P=0.049*	P=0.099	P=0.308
POLY 1.5	P=0.545	P=0.058	P=0.105	P=0.274
POLY 6	P=0.416N	P=0.046*	P=0.095	P=0.359
LOGISTIC REGRESSION	P=0.395N	P=0.048*	P=0.108	P=0.385
COCH-ARM / FISHERS	P=0.450	P=0.083	P=0.121	P=0.235
ORDER RESTRICTED	P=0.126	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.148	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Trachea
 Inflammation**

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.20	0/38.65	0/41.23	0/46.53
POLY-3 PERCENT (g)	4.7%	0%	0%	0%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	0/27 (0%)	0/37 (0%)
FIRST INCIDENCE	650	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.201N	P=0.246N	P=0.237N	P=0.183N
POLY 3	P=0.217N	P=0.257N	P=0.242N	P=0.216N
POLY 1.5	P=0.224N	P=0.250N	P=0.241N	P=0.225N
POLY 6	P=0.209N	P=0.261N	P=0.242N	P=0.204N
LOGISTIC REGRESSION	P=0.226N	P=0.251N	P=0.240N	P=0.239N
COCH-ARM / FISHERS	P=0.238N	P=0.247N	P=0.247N	P=0.247N
ORDER RESTRICTED	P=0.023N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.034N*	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Adrenal Cortex
 Degeneration Cystic**

LESION RATES

OVERALL (a)	1/50 (2%)	5/50 (10%)	5/50 (10%)	4/50 (8%)
POLY-3 RATE (b)	1/44.00	5/42.53	5/40.46	4/41.03
POLY-3 PERCENT (g)	2.3%	11.8%	12.4%	9.8%
TERMINAL (d)	1/29 (3%)	4/32 (13%)	3/24 (13%)	2/31 (7%)
FIRST INCIDENCE	729 (T)	561	617	625

STATISTICAL TESTS

LIFE TABLE	P=0.383	P=0.120	P=0.069	P=0.193
POLY 3	P=0.324	P=0.093	P=0.082	P=0.157
POLY 1.5	P=0.331	P=0.095	P=0.090	P=0.161
POLY 6	P=0.331	P=0.095	P=0.075	P=0.160
LOGISTIC REGRESSION	P=0.341	P=0.095	P=0.083	P=0.157
COCH-ARM / FISHERS	P=0.372	P=0.102	P=0.102	P=0.181
ORDER RESTRICTED	P=0.106	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.125	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Adrenal Cortex
 Hyperplasia**

LESION RATES

OVERALL (a)	7/50 (14%)	12/50 (24%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	7/44.00	12/42.21	3/40.40	4/40.66
POLY-3 PERCENT (g)	15.9%	28.4%	7.4%	9.8%
TERMINAL (d)	7/29 (24%)	10/32 (31%)	2/24 (8%)	3/31 (10%)
FIRST INCIDENCE	729 (T)	678	496	716

STATISTICAL TESTS

LIFE TABLE	P=0.065N	P=0.205	P=0.233N	P=0.223N
POLY 3	P=0.082N	P=0.124	P=0.192N	P=0.307N
POLY 1.5	P=0.081N	P=0.132	P=0.178N	P=0.299N
POLY 6	P=0.079N	P=0.126	P=0.210N	P=0.302N
LOGISTIC REGRESSION	P=0.083N	P=0.160	P=0.216N	P=0.245N
COCH-ARM / FISHERS	P=0.070N	P=0.154	P=0.159N	P=0.262N
ORDER RESTRICTED	P=0.059N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.075N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Adrenal Cortex
 Hypertrophy**

LESION RATES

OVERALL (a)	12/50 (24%)	16/50 (32%)	18/50 (36%)	16/50 (32%)
POLY-3 RATE (b)	12/44.61	16/43.43	18/41.22	16/41.68
POLY-3 PERCENT (g)	26.9%	36.8%	43.7%	38.4%
TERMINAL (d)	10/29 (35%)	12/32 (38%)	12/24 (50%)	13/31 (42%)
FIRST INCIDENCE	617	561	617	561

STATISTICAL TESTS

LIFE TABLE	P=0.362	P=0.322	P=0.041*	P=0.285
POLY 3	P=0.244	P=0.217	P=0.075	P=0.179
POLY 1.5	P=0.259	P=0.225	P=0.097	P=0.190
POLY 6	P=0.248	P=0.228	P=0.057	P=0.184
LOGISTIC REGRESSION	P=0.254	P=0.203	P=0.046*	P=0.173
COCH-ARM / FISHERS	P=0.339	P=0.252	P=0.138	P=0.252
ORDER RESTRICTED	P=0.124	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.143	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Adrenal Cortex
 Vacuolization Cytoplasmic**

LESION RATES

OVERALL (a)	17/50 (34%)	11/50 (22%)	17/50 (34%)	18/50 (36%)
POLY-3 RATE (b)	17/46.04	11/43.05	17/42.31	18/41.84
POLY-3 PERCENT (g)	36.9%	25.6%	40.2%	43%
TERMINAL (d)	9/29 (31%)	9/32 (28%)	9/24 (38%)	13/31 (42%)
FIRST INCIDENCE	553	561	496	625

STATISTICAL TESTS

LIFE TABLE	P=0.264	P=0.114N	P=0.345	P=0.533
POLY 3	P=0.157	P=0.175N	P=0.462	P=0.357
POLY 1.5	P=0.171	P=0.160N	P=0.511	P=0.388
POLY 6	P=0.154	P=0.182N	P=0.407	P=0.349
LOGISTIC REGRESSION	P=0.175	P=0.152N	P=0.512	P=0.388
COCH-ARM / FISHERS	P=0.239	P=0.133N	P=0.583N	P=0.500
ORDER RESTRICTED	P=0.194	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.219	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Adrenal Medulla
 Hyperplasia**

LESION RATES

OVERALL (a)	4/50 (8%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	4/44.59	3/42.73	0/39.72	2/41.29
POLY-3 PERCENT (g)	9%	7%	0%	4.8%
TERMINAL (d)	2/29 (7%)	2/32 (6%)	0/24 (0%)	1/31 (3%)
FIRST INCIDENCE	553	467	---	499

STATISTICAL TESTS

LIFE TABLE	P=0.312N	P=0.473N	P=0.089N	P=0.344N
POLY 3	P=0.316N	P=0.523N	P=0.076N	P=0.373N
POLY 1.5	P=0.315N	P=0.517N	P=0.069N	P=0.367N
POLY 6	P=0.314N	P=0.522N	P=0.085N	P=0.371N
LOGISTIC REGRESSION	P=0.269N	P=0.455N	P=0.062N	P=0.305N
COCH-ARM / FISHERS	P=0.304N	P=0.500N	P=0.059N	P=0.339N
ORDER RESTRICTED	P=0.135N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.156N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Bone Marrow
 Hyperplasia

LESION RATES

OVERALL (a)	15/50 (30%)	15/50 (30%)	14/50 (28%)	18/50 (36%)
POLY-3 RATE (b)	15/46.85	15/46.79	14/44.27	18/46.03
POLY-3 PERCENT (g)	32%	32.1%	31.6%	39.1%
TERMINAL (d)	5/29 (17%)	6/32 (19%)	3/24 (13%)	6/31 (19%)
FIRST INCIDENCE	553	390	442	246

STATISTICAL TESTS

LIFE TABLE	P=0.268	P=0.567N	P=0.471	P=0.335
POLY 3	P=0.240	P=0.586	P=0.573N	P=0.310
POLY 1.5	P=0.235	P=0.582	P=0.543N	P=0.304
POLY 6	P=0.259	P=0.575N	P=0.573	P=0.335
LOGISTIC REGRESSION	P=0.417	P=0.417N	P=0.276N	P=0.472
COCH-ARM / FISHERS	P=0.263	P=0.586N	P=0.500N	P=0.335
ORDER RESTRICTED	P=0.366	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.376	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Brain Hemorrhage

LESION RATES

OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	3/44.29	1/42.74	1/39.73	3/41.90
POLY-3 PERCENT (g)	6.8%	2.3%	2.5%	7.2%
TERMINAL (d)	1/29 (3%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	690	462	726	467

STATISTICAL TESTS

LIFE TABLE	P=0.412	P=0.299N	P=0.384N	P=0.642
POLY 3	P=0.407	P=0.318N	P=0.345N	P=0.637
POLY 1.5	P=0.406	P=0.315N	P=0.328N	P=0.638
POLY 6	P=0.413	P=0.316N	P=0.366N	P=0.645
LOGISTIC REGRESSION	P=0.495	P=0.229N	P=0.361N	P=0.618N
COCH-ARM / FISHERS	P=0.418	P=0.309N	P=0.309N	P=0.661N
ORDER RESTRICTED	P=0.382	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.398	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Brain
 Hydrocephalus

LESION RATES

OVERALL (a)	2/50 (4%)	3/50 (6%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	2/44.51	3/43.17	0/39.72	3/41.95
POLY-3 PERCENT (g)	4.5%	7%	0%	7.2%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	632	561	---	489

STATISTICAL TESTS

LIFE TABLE	P=0.435	P=0.476	P=0.291N	P=0.462
POLY 3	P=0.441	P=0.486	P=0.263N	P=0.473
POLY 1.5	P=0.442	P=0.489	P=0.252N	P=0.476
POLY 6	P=0.446	P=0.492	P=0.278N	P=0.479
LOGISTIC REGRESSION	P=0.587	P=0.629	P=0.200N	P=0.609
COCH-ARM / FISHERS	P=0.459	P=0.500	P=0.247N	P=0.500
ORDER RESTRICTED	P=0.379	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.395	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Clitoral Gland
 Hyperplasia**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	4/49 (8%)
POLY-3 RATE (b)	0/44.00	0/41.99	1/40.00	4/39.61
POLY-3 PERCENT (g)	0%	0%	2.5%	10.1%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	4/30 (13%)
FIRST INCIDENCE	---	---	652	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.006**	(e)	P=0.461	P=0.066
POLY 3	P=0.003**	(e)	P=0.481	P=0.047*
POLY 1.5	P=0.004**	(e)	P=0.489	P=0.049*
POLY 6	P=0.003**	(e)	P=0.472	P=0.047*
LOGISTIC REGRESSION	P=0.004**	(e)	P=0.538	P=0.066
COCH-ARM / FISHERS	P=0.005**	(e)	P=0.500	P=0.056
ORDER RESTRICTED	P=0.004**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.006**	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Clitoral Gland
 Inflammation

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/49 (4%)
POLY-3 RATE (b)	1/44.22	0/41.99	1/40.00	2/39.61
POLY-3 PERCENT (g)	2.3%	0%	2.5%	5.1%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	2/30 (7%)
FIRST INCIDENCE	673	---	652	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.233	P=0.516N	P=0.705	P=0.489
POLY 3	P=0.214	P=0.510N	P=0.738	P=0.462
POLY 1.5	P=0.217	P=0.507N	P=0.747	P=0.468
POLY 6	P=0.213	P=0.510N	P=0.727	P=0.461
LOGISTIC REGRESSION	P=0.215	P=0.490N	P=0.745N	P=0.464
COCH-ARM / FISHERS	P=0.229	P=0.500N	P=0.753N	P=0.492
ORDER RESTRICTED	P=0.192	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.218	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Clitoral Gland: Duct
 Cyst**

LESION RATES

OVERALL (a)	3/50 (6%)	1/50 (2%)	2/50 (4%)	1/49 (2%)
POLY-3 RATE (b)	3/44.06	1/41.99	2/40.07	1/39.61
POLY-3 PERCENT (g)	6.8%	2.4%	5%	2.5%
TERMINAL (d)	2/29 (7%)	1/32 (3%)	1/24 (4%)	1/30 (3%)
FIRST INCIDENCE	716	729 (T)	632	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.344N	P=0.273N	P=0.584N	P=0.294N
POLY 3	P=0.366N	P=0.322N	P=0.543N	P=0.344N
POLY 1.5	P=0.364N	P=0.318N	P=0.526N	P=0.338N
POLY 6	P=0.366N	P=0.321N	P=0.563N	P=0.343N
LOGISTIC REGRESSION	P=0.372N	P=0.291N	P=0.565N	P=0.320N
COCH-ARM / FISHERS	P=0.347N	P=0.309N	P=0.500N	P=0.316N
ORDER RESTRICTED	P=0.262N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.286N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Eye
 Cataract

LESION RATES

OVERALL (a)	2/50 (4%)	3/50 (6%)	2/50 (4%)	7/50 (14%)
POLY-3 RATE (b)	2/44.40	3/42.33	2/40.56	7/42.23
POLY-3 PERCENT (g)	4.5%	7.1%	4.9%	16.6%
TERMINAL (d)	1/29 (3%)	1/32 (3%)	0/24 (0%)	5/31 (16%)
FIRST INCIDENCE	617	643	581	309

STATISTICAL TESTS

LIFE TABLE	P=0.036*	P=0.511	P=0.636	P=0.089
POLY 3	P=0.026*	P=0.478	P=0.661	P=0.066
POLY 1.5	P=0.027*	P=0.484	P=0.674	P=0.068
POLY 6	P=0.027*	P=0.480	P=0.647	P=0.067
LOGISTIC REGRESSION	P=0.040*	P=0.497	P=0.601N	P=0.105
COCH-ARM / FISHERS	P=0.031*	P=0.500	P=0.691N	P=0.080
ORDER RESTRICTED	P=0.026*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.034*	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Eye
 Synechia

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.00	0/41.99	0/39.72	0/40.61
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Eye: Retina
 Atrophy

LESION RATES

OVERALL (a)	3/50 (6%)	3/50 (6%)	2/50 (4%)	7/50 (14%)
POLY-3 RATE (b)	3/44.40	3/42.33	2/40.56	7/41.31
POLY-3 PERCENT (g)	6.8%	7.1%	4.9%	17%
TERMINAL (d)	2/29 (7%)	1/32 (3%)	0/24 (0%)	6/31 (19%)
FIRST INCIDENCE	617	643	581	489

STATISTICAL TESTS

LIFE TABLE	P=0.068	P=0.643N	P=0.572N	P=0.173
POLY 3	P=0.049*	P=0.641	P=0.541N	P=0.128
POLY 1.5	P=0.051	P=0.646	P=0.525N	P=0.133
POLY 6	P=0.049*	P=0.643	P=0.560N	P=0.128
LOGISTIC REGRESSION	P=0.054	P=0.652	P=0.432N	P=0.136
COCH-ARM / FISHERS	P=0.060	P=0.661N	P=0.500N	P=0.159
ORDER RESTRICTED	P=0.057	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.072	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Harderian Gland
 Hyperplasia**

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/44.51	0/41.99	0/39.72	1/40.61
POLY-3 PERCENT (g)	2.3%	0%	0%	2.5%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	1/31 (3%)
FIRST INCIDENCE	575	---	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.534	P=0.522N	P=0.518N	P=0.753
POLY 3	P=0.533	P=0.512N	P=0.523N	P=0.740
POLY 1.5	P=0.533	P=0.508N	P=0.513N	P=0.744
POLY 6	P=0.533	P=0.512N	P=0.534N	P=0.740
LOGISTIC REGRESSION	P=0.561	P=0.348N	P=0.316N	P=0.750N
COCH-ARM / FISHERS	P=0.541	P=0.500N	P=0.500N	P=0.753N
ORDER RESTRICTED	P=0.380	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.402	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Harderian Gland
 Inflammation**

LESION RATES

OVERALL (a)	3/50 (6%)	2/50 (4%)	0/50 (0%)	5/50 (10%)
POLY-3 RATE (b)	3/44.11	2/41.99	0/39.72	5/40.98
POLY-3 PERCENT (g)	6.8%	4.8%	0%	12.2%
TERMINAL (d)	2/29 (7%)	2/32 (6%)	0/24 (0%)	4/31 (13%)
FIRST INCIDENCE	701	729 (T)	---	625

STATISTICAL TESTS

LIFE TABLE	P=0.156	P=0.459N	P=0.157N	P=0.380
POLY 3	P=0.131	P=0.522N	P=0.138N	P=0.316
POLY 1.5	P=0.132	P=0.516N	P=0.130N	P=0.322
POLY 6	P=0.132	P=0.522N	P=0.149N	P=0.319
LOGISTIC REGRESSION	P=0.128	P=0.498N	P=0.154N	P=0.315
COCH-ARM / FISHERS	P=0.143	P=0.500N	P=0.121N	P=0.357
ORDER RESTRICTED	P=0.077	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.094	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Heart
 Cardiomyopathy**

LESION RATES

OVERALL (a)	50/50 (100%)	44/50 (88%)	46/50 (92%)	43/50 (86%)
POLY-3 RATE (b)	50/50.00	44/46.58	46/48.29	43/46.24
POLY-3 PERCENT (g)	100%	94.5%	95.3%	93%
TERMINAL (d)	29/29 (100%)	31/32 (97%)	23/24 (96%)	30/31 (97%)
FIRST INCIDENCE	553	466	453	309

STATISTICAL TESTS

LIFE TABLE	P=0.218N	P=0.112N	P=0.291	P=0.130N
POLY 3	P=0.108N	P=0.087N	P=0.151N	P=0.058N
POLY 1.5	P=0.096N	P=0.034N*	P=0.096N	P=0.029N*
POLY 6	P=0.144N	P=0.267N	P=0.254N	P=0.120N
LOGISTIC REGRESSION	P=0.257N	P=0.109N	P=0.164N	P=0.052N
COCH-ARM / FISHERS	P=0.049N*	P=0.013N*	P=0.059N	P=0.006N**
ORDER RESTRICTED	P=0.030N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.041N*	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Heart: Atrium
 Thrombosis

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.00	1/42.35	0/39.72	0/40.61
POLY-3 PERCENT (g)	0%	2.4%	0%	0%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	---	629	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.588N	P=0.490	(e)	(e)
POLY 3	P=0.593N	P=0.492	(e)	(e)
POLY 1.5	P=0.592N	P=0.494	(e)	(e)
POLY 6	P=0.591N	P=0.495	(e)	(e)
LOGISTIC REGRESSION	P=0.554N	P=0.560	(e)	(e)
COCH-ARM / FISHERS	P=0.585N	P=0.500	(e)	(e)
ORDER RESTRICTED	P=0.390N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.409N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Intestine Large, Colon
 Parasite Metazoan

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/44.00	2/41.99	2/39.72	1/40.61
POLY-3 PERCENT (g)	2.3%	4.8%	5%	2.5%
TERMINAL (d)	1/29 (3%)	2/32 (6%)	2/24 (8%)	1/31 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.509N	P=0.535	P=0.434	P=0.747N
POLY 3	P=0.552N	P=0.484	P=0.464	P=0.743
POLY 1.5	P=0.547N	P=0.488	P=0.479	P=0.746
POLY 6	P=0.550N	P=0.485	P=0.447	P=0.744
LOGISTIC REGRESSION	P=0.509N	P=0.535	P=0.434	P=0.747N
COCH-ARM / FISHERS	P=0.524N	P=0.500	P=0.500	P=0.753N
ORDER RESTRICTED	P=0.518	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.529	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Intestine Large, Rectum
 Parasite Metazoan

LESION RATES

OVERALL (a)	8/50 (16%)	9/50 (18%)	10/50 (20%)	9/50 (18%)
POLY-3 RATE (b)	8/44.29	9/42.96	10/42.24	9/41.92
POLY-3 PERCENT (g)	18.1%	21%	23.7%	21.5%
TERMINAL (d)	6/29 (21%)	7/32 (22%)	4/24 (17%)	6/31 (19%)
FIRST INCIDENCE	690	390	496	467

STATISTICAL TESTS

LIFE TABLE	P=0.506	P=0.572	P=0.264	P=0.528
POLY 3	P=0.450	P=0.472	P=0.352	P=0.450
POLY 1.5	P=0.452	P=0.479	P=0.369	P=0.454
POLY 6	P=0.464	P=0.477	P=0.337	P=0.462
LOGISTIC REGRESSION	P=0.471	P=0.463	P=0.386	P=0.439
COCH-ARM / FISHERS	P=0.500	P=0.500	P=0.398	P=0.500
ORDER RESTRICTED	P=0.481	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.492	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Islets, Pancreatic
 Hyperplasia**

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/44.13	0/41.99	1/39.72	0/40.61
POLY-3 PERCENT (g)	2.3%	0%	2.5%	0%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	1/24 (4%)	0/31 (0%)
FIRST INCIDENCE	698	---	729 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.458N	P=0.488N	P=0.716	P=0.500N
POLY 3	P=0.467N	P=0.510N	P=0.737	P=0.517N
POLY 1.5	P=0.466N	P=0.507N	P=0.747	P=0.513N
POLY 6	P=0.467N	P=0.510N	P=0.725	P=0.516N
LOGISTIC REGRESSION	P=0.472N	P=0.506N	P=0.726	P=0.513N
COCH-ARM / FISHERS	P=0.459N	P=0.500N	P=0.753N	P=0.500N
ORDER RESTRICTED	P=0.266N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.290N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Kidney
 Cyst**

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/44.00	0/41.99	1/40.15	0/40.61
POLY-3 PERCENT (g)	2.3%	0%	2.5%	0%
TERMINAL (d)	1/29 (3%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	729 (T)	---	602	---

STATISTICAL TESTS

LIFE TABLE	P=0.465N	P=0.480N	P=0.723	P=0.487N
POLY 3	P=0.467N	P=0.509N	P=0.740	P=0.516N
POLY 1.5	P=0.466N	P=0.507N	P=0.748	P=0.513N
POLY 6	P=0.467N	P=0.508N	P=0.731	P=0.515N
LOGISTIC REGRESSION	P=0.452N	(e)	P=0.749N	(e)
COCH-ARM / FISHERS	P=0.459N	P=0.500N	P=0.753N	P=0.500N
ORDER RESTRICTED	P=0.266N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.289N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Kidney
 Hydronephrosis**

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.03	0/41.99	0/39.72	0/40.61
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	723	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.474N	P=0.475N	P=0.536N	P=0.493N
POLY 3	P=0.462N	P=0.509N	P=0.521N	P=0.516N
POLY 1.5	P=0.464N	P=0.507N	P=0.512N	P=0.513N
POLY 6	P=0.462N	P=0.509N	P=0.531N	P=0.515N
LOGISTIC REGRESSION	P=0.477N	P=0.499N	P=0.539N	P=0.508N
COCH-ARM / FISHERS	P=0.471N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.134N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.155N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Kidney
 Mineralization**

LESION RATES

OVERALL (a)	39/50 (78%)	31/50 (62%)	34/50 (68%)	38/50 (76%)
POLY-3 RATE (b)	39/48.86	31/46.09	34/46.59	38/46.94
POLY-3 PERCENT (g)	79.8%	67.3%	73%	81%
TERMINAL (d)	23/29 (79%)	22/32 (69%)	18/24 (75%)	25/31 (81%)
FIRST INCIDENCE	553	390	442	246

STATISTICAL TESTS

LIFE TABLE	P=0.368	P=0.079N	P=0.466	P=0.468N
POLY 3	P=0.253	P=0.115N	P=0.285N	P=0.548
POLY 1.5	P=0.259	P=0.090N	P=0.238N	P=0.581
POLY 6	P=0.247	P=0.149N	P=0.355N	P=0.513
LOGISTIC REGRESSION	P=0.267	P=0.075N	P=0.189N	P=0.563N
COCH-ARM / FISHERS	P=0.320	P=0.063N	P=0.184N	P=0.500N
ORDER RESTRICTED	P=0.295	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.309	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Kidney
 Nephropathy**

LESION RATES

OVERALL (a)	40/50 (80%)	46/50 (92%)	35/50 (70%)	37/50 (74%)
POLY-3 RATE (b)	40/46.77	46/47.13	35/43.94	37/44.03
POLY-3 PERCENT (g)	85.5%	97.6%	79.7%	84%
TERMINAL (d)	27/29 (93%)	32/32 (100%)	22/24 (92%)	27/31 (87%)
FIRST INCIDENCE	617	467	561	489

STATISTICAL TESTS

LIFE TABLE	P=0.143N	P=0.316	P=0.422	P=0.284N
POLY 3	P=0.170N	P=0.017*	P=0.301N	P=0.542N
POLY 1.5	P=0.166N	P=0.029*	P=0.243N	P=0.505N
POLY 6	P=0.146N	P=0.019*	P=0.387N	P=0.523N
LOGISTIC REGRESSION	P=0.249N	P=0.002**	P=0.611	P=0.517
COCH-ARM / FISHERS	P=0.094N	P=0.074	P=0.178N	P=0.318N
ORDER RESTRICTED	P=0.082N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.097N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver
 Basophilic Focus

LESION RATES

OVERALL (a)	43/50 (86%)	35/50 (70%)	40/50 (80%)	39/50 (78%)
POLY-3 RATE (b)	43/48.14	35/44.65	40/45.84	39/44.70
POLY-3 PERCENT (g)	89.3%	78.4%	87.3%	87.3%
TERMINAL (d)	29/29 (100%)	27/32 (84%)	23/24 (96%)	30/31 (97%)
FIRST INCIDENCE	553	466	453	467

STATISTICAL TESTS

LIFE TABLE	P=0.450N	P=0.036N*	P=0.258	P=0.210N
POLY 3	P=0.445	P=0.100N	P=0.505N	P=0.506N
POLY 1.5	P=0.469	P=0.073N	P=0.412N	P=0.430N
POLY 6	P=0.446	P=0.131N	P=0.611N	P=0.564N
LOGISTIC REGRESSION	P=0.341	P=0.113N	P=0.587	P=0.562N
COCH-ARM / FISHERS	P=0.475N	P=0.045N*	P=0.298N	P=0.218N
ORDER RESTRICTED	P=0.348N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.369N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver
 Clear Cell Focus

LESION RATES

OVERALL (a)	4/50 (8%)	7/50 (14%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	4/44.51	7/41.99	3/40.58	1/40.61
POLY-3 PERCENT (g)	9%	16.7%	7.4%	2.5%
TERMINAL (d)	3/29 (10%)	7/32 (22%)	1/24 (4%)	1/31 (3%)
FIRST INCIDENCE	575	729 (T)	589	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.056N	P=0.306	P=0.584N	P=0.173N
POLY 3	P=0.068N	P=0.227	P=0.550N	P=0.207N
POLY 1.5	P=0.065N	P=0.238	P=0.530N	P=0.201N
POLY 6	P=0.067N	P=0.224	P=0.573N	P=0.208N
LOGISTIC REGRESSION	P=0.065N	P=0.238	P=0.468N	P=0.198N
COCH-ARM / FISHERS	P=0.055N	P=0.262	P=0.500N	P=0.181N
ORDER RESTRICTED	P=0.068N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.087N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver
 Degeneration Cystic

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.00	0/41.99	0/39.72	0/40.61
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver
 Fatty Change

LESION RATES

OVERALL (a)	1/50 (2%)	3/50 (6%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/44.22	3/42.80	2/39.88	1/40.88
POLY-3 PERCENT (g)	2.3%	7%	5%	2.5%
TERMINAL (d)	0/29 (0%)	1/32 (3%)	1/24 (4%)	0/31 (0%)
FIRST INCIDENCE	673	573	687	656

STATISTICAL TESTS

LIFE TABLE	P=0.445N	P=0.295	P=0.413	P=0.733
POLY 3	P=0.456N	P=0.293	P=0.464	P=0.743
POLY 1.5	P=0.450N	P=0.296	P=0.479	P=0.746
POLY 6	P=0.454N	P=0.298	P=0.447	P=0.745
LOGISTIC REGRESSION	P=0.418N	P=0.347	P=0.468	P=0.758N
COCH-ARM / FISHERS	P=0.424N	P=0.309	P=0.500	P=0.753N
ORDER RESTRICTED	P=0.437	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.454	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver
 Hematopoietic Cell Proliferation

LESION RATES

OVERALL (a)	5/50 (10%)	3/50 (6%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	5/44.62	3/42.50	2/41.04	3/40.61
POLY-3 PERCENT (g)	11.2%	7.1%	4.9%	7.4%
TERMINAL (d)	3/29 (10%)	2/32 (6%)	0/24 (0%)	3/31 (10%)
FIRST INCIDENCE	575	573	442	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.401N	P=0.335N	P=0.277N	P=0.340N
POLY 3	P=0.425N	P=0.383N	P=0.251N	P=0.409N
POLY 1.5	P=0.419N	P=0.376N	P=0.236N	P=0.398N
POLY 6	P=0.428N	P=0.381N	P=0.269N	P=0.412N
LOGISTIC REGRESSION	P=0.382N	P=0.357N	P=0.106N	P=0.398N
COCH-ARM / FISHERS	P=0.395N	P=0.357N	P=0.218N	P=0.357N
ORDER RESTRICTED	P=0.301N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.326N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver
 Hepatodiaphragmatic Nodule

LESION RATES

OVERALL (a)	7/50 (14%)	5/50 (10%)	5/50 (10%)	7/50 (14%)
POLY-3 RATE (b)	7/44.40	5/43.43	5/40.00	7/41.99
POLY-3 PERCENT (g)	15.8%	11.5%	12.5%	16.7%
TERMINAL (d)	4/29 (14%)	3/32 (9%)	4/24 (17%)	4/31 (13%)
FIRST INCIDENCE	673	466	652	499

STATISTICAL TESTS

LIFE TABLE	P=0.455	P=0.349N	P=0.525N	P=0.608N
POLY 3	P=0.415	P=0.394N	P=0.454N	P=0.570
POLY 1.5	P=0.417	P=0.392N	P=0.423N	P=0.573
POLY 6	P=0.424	P=0.387N	P=0.492N	P=0.583
LOGISTIC REGRESSION	P=0.429	P=0.359N	P=0.503N	P=0.578
COCH-ARM / FISHERS	P=0.450	P=0.380N	P=0.380N	P=0.613N
ORDER RESTRICTED	P=0.515	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.524	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver
 Inflammation

LESION RATES

OVERALL (a)	43/50 (86%)	33/50 (66%)	34/50 (68%)	30/50 (60%)
POLY-3 RATE (b)	43/49.05	33/46.14	34/45.44	30/44.29
POLY-3 PERCENT (g)	87.7%	71.5%	74.8%	67.7%
TERMINAL (d)	27/29 (93%)	23/32 (72%)	20/24 (83%)	22/31 (71%)
FIRST INCIDENCE	553	466	453	112

STATISTICAL TESTS

LIFE TABLE	P=0.049N*	P=0.036N*	P=0.433N	P=0.014N*
POLY 3	P=0.043N*	P=0.036N*	P=0.075N	P=0.013N*
POLY 1.5	P=0.033N*	P=0.026N*	P=0.048N*	P=0.008N**
POLY 6	P=0.058N	P=0.045N*	P=0.125N	P=0.020N*
LOGISTIC REGRESSION	P=0.039N*	P=0.027N*	P=0.060N	P=0.008N**
COCH-ARM / FISHERS	P=0.019N*	P=0.017N*	P=0.028N*	P=0.003N**
ORDER RESTRICTED	P=0.011N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.018N*	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver
 Mixed Cell Focus

LESION RATES

OVERALL (a)	5/50 (10%)	1/50 (2%)	1/50 (2%)	6/50 (12%)
POLY-3 RATE (b)	5/44.00	1/41.99	1/39.72	6/40.61
POLY-3 PERCENT (g)	11.4%	2.4%	2.5%	14.8%
TERMINAL (d)	5/29 (17%)	1/32 (3%)	1/24 (4%)	6/31 (19%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.162	P=0.080N	P=0.147N	P=0.548
POLY 3	P=0.133	P=0.112N	P=0.126N	P=0.443
POLY 1.5	P=0.134	P=0.109N	P=0.116N	P=0.454
POLY 6	P=0.132	P=0.110N	P=0.139N	P=0.446
LOGISTIC REGRESSION	P=0.162	P=0.080N	P=0.147N	P=0.548
COCH-ARM / FISHERS	P=0.147	P=0.102N	P=0.102N	P=0.500
ORDER RESTRICTED	P=0.080	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.098	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver
 Necrosis

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/44.11	2/42.39	2/40.43	1/40.98
POLY-3 PERCENT (g)	2.3%	4.7%	5%	2.4%
TERMINAL (d)	0/29 (0%)	1/32 (3%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	701	616	561	625

STATISTICAL TESTS

LIFE TABLE	P=0.541N	P=0.505	P=0.440	P=0.752
POLY 3	P=0.550N	P=0.486	P=0.470	P=0.744
POLY 1.5	P=0.546N	P=0.489	P=0.482	P=0.747
POLY 6	P=0.547N	P=0.489	P=0.456	P=0.746
LOGISTIC REGRESSION	P=0.491N	P=0.505	P=0.573	P=0.757N
COCH-ARM / FISHERS	P=0.524N	P=0.500	P=0.500	P=0.753N
ORDER RESTRICTED	P=0.522	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.533	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver: Bile Duct
 Hyperplasia

LESION RATES

OVERALL (a)	16/50 (32%)	11/50 (22%)	10/50 (20%)	15/50 (30%)
POLY-3 RATE (b)	16/46.15	11/43.50	10/41.44	15/42.50
POLY-3 PERCENT (g)	34.7%	25.3%	24.1%	35.3%
TERMINAL (d)	6/29 (21%)	8/32 (25%)	5/24 (21%)	10/31 (32%)
FIRST INCIDENCE	565	390	496	499

STATISTICAL TESTS

LIFE TABLE	P=0.431	P=0.177N	P=0.303N	P=0.502N
POLY 3	P=0.359	P=0.229N	P=0.197N	P=0.564
POLY 1.5	P=0.368	P=0.212N	P=0.165N	P=0.585
POLY 6	P=0.364	P=0.244N	P=0.246N	P=0.560
LOGISTIC REGRESSION	P=0.380	P=0.185N	P=0.144N	P=0.566N
COCH-ARM / FISHERS	P=0.427	P=0.184N	P=0.127N	P=0.500N
ORDER RESTRICTED	P=0.366	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.387	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver: Hepatocyte
 Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/44.00	0/41.99	1/40.33	0/40.61
POLY-3 PERCENT (g)	0%	0%	2.5%	0%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	530	---

STATISTICAL TESTS

LIFE TABLE	P=0.801N	(e)	P=0.483	(e)
POLY 3	P=0.794N	(e)	P=0.483	(e)
POLY 1.5	P=0.792N	(e)	P=0.490	(e)
POLY 6	P=0.794N	(e)	P=0.474	(e)
LOGISTIC REGRESSION	P=0.690N	(e)	P=0.808	(e)
COCH-ARM / FISHERS	P=0.785N	(e)	P=0.500	(e)
ORDER RESTRICTED	P=0.367	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.387	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Liver: Hepatocyte
 Hypertrophy

LESION RATES

OVERALL (a)	4/50 (8%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	4/44.11	1/41.99	1/40.33	0/40.61
POLY-3 PERCENT (g)	9.1%	2.4%	2.5%	0%
TERMINAL (d)	3/29 (10%)	1/32 (3%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	701	729 (T)	530	---

STATISTICAL TESTS

LIFE TABLE	P=0.073N	P=0.154N	P=0.235N	P=0.058N
POLY 3	P=0.070N	P=0.193N	P=0.206N	P=0.071N
POLY 1.5	P=0.070N	P=0.190N	P=0.195N	P=0.069N
POLY 6	P=0.069N	P=0.192N	P=0.220N	P=0.070N
LOGISTIC REGRESSION	P=0.074N	P=0.175N	P=0.180N	P=0.067N
COCH-ARM / FISHERS	P=0.069N	P=0.181N	P=0.181N	P=0.059N
ORDER RESTRICTED	P=0.016N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.023N*	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Lung
 Inflammation**

LESION RATES

OVERALL (a)	14/50 (28%)	8/50 (16%)	9/50 (18%)	11/50 (22%)
POLY-3 RATE (b)	14/45.85	8/42.04	9/41.91	11/41.66
POLY-3 PERCENT (g)	30.5%	19%	21.5%	26.4%
TERMINAL (d)	8/29 (28%)	6/32 (19%)	4/24 (17%)	9/31 (29%)
FIRST INCIDENCE	565	723	496	499

STATISTICAL TESTS

LIFE TABLE	P=0.501N	P=0.097N	P=0.320N	P=0.310N
POLY 3	P=0.555	P=0.158N	P=0.234N	P=0.425N
POLY 1.5	P=0.557N	P=0.141N	P=0.206N	P=0.400N
POLY 6	P=0.555	P=0.171N	P=0.273N	P=0.437N
LOGISTIC REGRESSION	P=0.557	P=0.135N	P=0.146N	P=0.381N
COCH-ARM / FISHERS	P=0.510N	P=0.114N	P=0.171N	P=0.322N
ORDER RESTRICTED	P=0.288N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.312N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Lung: Alveolar Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	12/50 (24%)	8/50 (16%)	7/50 (14%)	8/50 (16%)
POLY-3 RATE (b)	12/45.33	8/42.53	7/40.87	8/41.61
POLY-3 PERCENT (g)	26.5%	18.8%	17.1%	19.2%
TERMINAL (d)	7/29 (24%)	7/32 (22%)	5/24 (21%)	7/31 (23%)
FIRST INCIDENCE	568	561	453	112

STATISTICAL TESTS

LIFE TABLE	P=0.295N	P=0.194N	P=0.285N	P=0.212N
POLY 3	P=0.343N	P=0.273N	P=0.215N	P=0.292N
POLY 1.5	P=0.331N	P=0.258N	P=0.187N	P=0.272N
POLY 6	P=0.351N	P=0.280N	P=0.255N	P=0.304N
LOGISTIC REGRESSION	P=0.329N	P=0.256N	P=0.179N	P=0.231N
COCH-ARM / FISHERS	P=0.302N	P=0.227N	P=0.154N	P=0.227N
ORDER RESTRICTED	P=0.263N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.287N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Lung: Alveolus
 Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	37/50 (74%)	28/50 (56%)	26/50 (52%)	38/50 (76%)
POLY-3 RATE (b)	37/48.10	28/43.69	26/44.21	38/47.90
POLY-3 PERCENT (g)	76.9%	64.1%	58.8%	79.3%
TERMINAL (d)	24/29 (83%)	21/32 (66%)	16/24 (67%)	24/31 (77%)
FIRST INCIDENCE	553	616	453	112

STATISTICAL TESTS

LIFE TABLE	P=0.195	P=0.043N*	P=0.225N	P=0.536
POLY 3	P=0.184	P=0.120N	P=0.041N*	P=0.484
POLY 1.5	P=0.161	P=0.085N	P=0.028N*	P=0.483
POLY 6	P=0.222	P=0.151N	P=0.065N	P=0.511
LOGISTIC REGRESSION	P=0.090	P=0.084N	P=0.033N*	P=0.520
COCH-ARM / FISHERS	P=0.138	P=0.046N*	P=0.019N*	P=0.500
ORDER RESTRICTED	P=0.113	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.121	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Mammary Gland
 Cyst**

LESION RATES

OVERALL (a)	2/50 (4%)	3/50 (6%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/44.36	3/42.53	2/40.37	2/40.61
POLY-3 PERCENT (g)	4.5%	7.1%	5%	4.9%
TERMINAL (d)	1/29 (3%)	1/32 (3%)	1/24 (4%)	2/31 (7%)
FIRST INCIDENCE	628	573	513	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.533N	P=0.512	P=0.634	P=0.685N
POLY 3	P=0.563N	P=0.481	P=0.660	P=0.662
POLY 1.5	P=0.556N	P=0.486	P=0.674	P=0.668
POLY 6	P=0.565N	P=0.484	P=0.642	P=0.661
LOGISTIC REGRESSION	P=0.532N	P=0.516	P=0.628N	P=0.669
COCH-ARM / FISHERS	P=0.529N	P=0.500	P=0.691N	P=0.691N
ORDER RESTRICTED	P=0.632	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.637	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Mammary Gland
 Hyperplasia**

LESION RATES

OVERALL (a)	4/50 (8%)	3/50 (6%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	4/44.00	3/42.01	1/39.72	2/40.98
POLY-3 PERCENT (g)	9.1%	7.1%	2.5%	4.9%
TERMINAL (d)	4/29 (14%)	2/32 (6%)	1/24 (4%)	1/31 (3%)
FIRST INCIDENCE	729 (T)	723	729 (T)	625

STATISTICAL TESTS

LIFE TABLE	P=0.298N	P=0.444N	P=0.237N	P=0.317N
POLY 3	P=0.319N	P=0.525N	P=0.211N	P=0.370N
POLY 1.5	P=0.319N	P=0.519N	P=0.197N	P=0.366N
POLY 6	P=0.315N	P=0.522N	P=0.227N	P=0.364N
LOGISTIC REGRESSION	P=0.327N	P=0.454N	P=0.237N	P=0.371N
COCH-ARM / FISHERS	P=0.305N	P=0.500N	P=0.181N	P=0.339N
ORDER RESTRICTED	P=0.232N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.253N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Mammary Gland
 Inflammation**

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/44.36	0/41.99	0/39.72	1/40.61
POLY-3 PERCENT (g)	4.5%	0%	0%	2.5%
TERMINAL (d)	1/29 (3%)	0/32 (0%)	0/24 (0%)	1/31 (3%)
FIRST INCIDENCE	628	---	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.641N	P=0.239N	P=0.284N	P=0.496N
POLY 3	P=0.642N	P=0.249N	P=0.262N	P=0.531N
POLY 1.5	P=0.644N	P=0.246N	P=0.252N	P=0.525N
POLY 6	P=0.642N	P=0.250N	P=0.276N	P=0.532N
LOGISTIC REGRESSION	P=0.659N	P=0.229N	P=0.230N	P=0.520N
COCH-ARM / FISHERS	P=0.646N	P=0.247N	P=0.247N	P=0.500N
ORDER RESTRICTED	P=0.153N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.175N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Mesentery
 Necrosis**

LESION RATES

OVERALL (a)	14/14 (100%)	12/12 (100%)	12/12 (100%)	10/12 (83%)
POLY-3 RATE (b)	14/14.00	12/12.00	12/12.00	10/11.63
POLY-3 PERCENT (g)	100%	100%	100%	86%
TERMINAL (d)	8/8 (100%)	6/6 (100%)	6/6 (100%)	6/7 (86%)
FIRST INCIDENCE	565	462	513	246

STATISTICAL TESTS

LIFE TABLE	P=0.222N	(e)	(e)	P=0.293N
POLY 3	P=0.046N*	(e)	(e)	P=0.246N
POLY 1.5	P=0.037N*	(e)	(e)	P=0.219N
POLY 6	P=0.071N	(e)	(e)	P=0.303N
LOGISTIC REGRESSION	P=0.034N*	(e)	(e)	P=0.197N
COCH-ARM / FISHERS	P=0.035N*	(e)	(e)	P=0.203N
ORDER RESTRICTED	P=0.019N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.031N*	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Nose
 Inflammation**

LESION RATES

OVERALL (a)	7/50 (14%)	10/50 (20%)	11/50 (22%)	9/50 (18%)
POLY-3 RATE (b)	7/44.54	10/44.09	11/42.71	9/41.06
POLY-3 PERCENT (g)	15.7%	22.7%	25.8%	21.9%
TERMINAL (d)	4/29 (14%)	6/32 (19%)	3/24 (13%)	8/31 (26%)
FIRST INCIDENCE	617	485	496	596

STATISTICAL TESTS

LIFE TABLE	P=0.481	P=0.334	P=0.133	P=0.425
POLY 3	P=0.391	P=0.286	P=0.184	P=0.324
POLY 1.5	P=0.411	P=0.286	P=0.196	P=0.337
POLY 6	P=0.383	P=0.302	P=0.176	P=0.323
LOGISTIC REGRESSION	P=0.466	P=0.307	P=0.251	P=0.328
COCH-ARM / FISHERS	P=0.484	P=0.298	P=0.218	P=0.393
ORDER RESTRICTED	P=0.285	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.307	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Ovary
 Cyst

LESION RATES

OVERALL (a)	6/50 (12%)	7/50 (14%)	6/50 (12%)	7/50 (14%)
POLY-3 RATE (b)	6/44.16	7/43.01	6/40.87	7/41.12
POLY-3 PERCENT (g)	13.6%	16.3%	14.7%	17%
TERMINAL (d)	4/29 (14%)	4/32 (13%)	4/24 (17%)	5/31 (16%)
FIRST INCIDENCE	695	485	453	656

STATISTICAL TESTS

LIFE TABLE	P=0.497	P=0.552	P=0.493	P=0.524
POLY 3	P=0.434	P=0.480	P=0.566	P=0.445
POLY 1.5	P=0.441	P=0.483	P=0.589	P=0.453
POLY 6	P=0.439	P=0.490	P=0.539	P=0.453
LOGISTIC REGRESSION	P=0.445	P=0.471	P=0.569	P=0.445
COCH-ARM / FISHERS	P=0.488	P=0.500	P=0.620N	P=0.500
ORDER RESTRICTED	P=0.522	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.532	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Pancreas: Acinus
 Atrophy**

LESION RATES

OVERALL (a)	9/50 (18%)	9/50 (18%)	17/50 (34%)	11/50 (22%)
POLY-3 RATE (b)	9/46.82	9/43.76	17/43.10	11/41.66
POLY-3 PERCENT (g)	19.2%	20.6%	39.5%	26.4%
TERMINAL (d)	1/29 (3%)	4/32 (13%)	9/24 (38%)	8/31 (26%)
FIRST INCIDENCE	553	561	496	561

STATISTICAL TESTS

LIFE TABLE	P=0.374	P=0.576	P=0.032*	P=0.390
POLY 3	P=0.253	P=0.541	P=0.027*	P=0.291
POLY 1.5	P=0.283	P=0.560	P=0.036*	P=0.320
POLY 6	P=0.228	P=0.533	P=0.018*	P=0.270
LOGISTIC REGRESSION	P=0.391	P=0.489N	P=0.111	P=0.414
COCH-ARM / FISHERS	P=0.377	P=0.602N	P=0.055	P=0.402
ORDER RESTRICTED	P=0.100	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.125	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Pancreas: Duct
 Cyst

LESION RATES

OVERALL (a)	5/50 (10%)	3/50 (6%)	2/50 (4%)	6/50 (12%)
POLY-3 RATE (b)	5/44.45	3/42.50	2/40.07	6/40.88
POLY-3 PERCENT (g)	11.3%	7.1%	5%	14.7%
TERMINAL (d)	3/29 (10%)	2/32 (6%)	1/24 (4%)	5/31 (16%)
FIRST INCIDENCE	617	573	632	656

STATISTICAL TESTS

LIFE TABLE	P=0.288	P=0.335N	P=0.300N	P=0.523
POLY 3	P=0.246	P=0.381N	P=0.259N	P=0.441
POLY 1.5	P=0.251	P=0.375N	P=0.242N	P=0.452
POLY 6	P=0.245	P=0.378N	P=0.282N	P=0.442
LOGISTIC REGRESSION	P=0.244	P=0.368N	P=0.254N	P=0.446
COCH-ARM / FISHERS	P=0.275	P=0.357N	P=0.218N	P=0.500
ORDER RESTRICTED	P=0.222	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.244	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Pituitary Gland: Pars Distalis
 Cyst**

LESION RATES

OVERALL (a)	7/50 (14%)	15/50 (30%)	11/50 (22%)	14/50 (28%)
POLY-3 RATE (b)	7/44.91	15/43.83	11/41.54	14/43.50
POLY-3 PERCENT (g)	15.6%	34.2%	26.5%	32.2%
TERMINAL (d)	5/29 (17%)	12/32 (38%)	5/24 (21%)	8/31 (26%)
FIRST INCIDENCE	575	390	561	246

STATISTICAL TESTS

LIFE TABLE	P=0.207	P=0.063	P=0.126	P=0.084
POLY 3	P=0.162	P=0.034*	P=0.161	P=0.054
POLY 1.5	P=0.161	P=0.037*	P=0.182	P=0.055
POLY 6	P=0.177	P=0.034*	P=0.142	P=0.059
LOGISTIC REGRESSION	P=0.184	P=0.043*	P=0.194	P=0.079
COCH-ARM / FISHERS	P=0.192	P=0.045*	P=0.218	P=0.070
ORDER RESTRICTED	P=0.052	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.061	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Pituitary Gland: Pars Distalis
 Hyperplasia

LESION RATES

OVERALL (a)	17/50 (34%)	26/50 (52%)	20/50 (40%)	18/50 (36%)
POLY-3 RATE (b)	17/45.08	26/44.46	20/43.20	18/43.46
POLY-3 PERCENT (g)	37.7%	58.5%	46.3%	41.4%
TERMINAL (d)	15/29 (52%)	22/32 (69%)	10/24 (42%)	11/31 (36%)
FIRST INCIDENCE	553	466	496	496

STATISTICAL TESTS

LIFE TABLE	P=0.302N	P=0.079	P=0.151	P=0.534
POLY 3	P=0.351N	P=0.034*	P=0.270	P=0.444
POLY 1.5	P=0.366N	P=0.038*	P=0.294	P=0.437
POLY 6	P=0.294N	P=0.034*	P=0.254	P=0.492
LOGISTIC REGRESSION	P=0.384N	P=0.032*	P=0.247	P=0.414
COCH-ARM / FISHERS	P=0.307N	P=0.053	P=0.339	P=0.500
ORDER RESTRICTED	P=0.221	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.234	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Skin: Hair Follicle
 Cyst

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/44.00	0/41.99	0/39.72	2/40.61
POLY-3 PERCENT (g)	0%	0%	0%	4.9%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	2/31 (7%)
FIRST INCIDENCE	---	---	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.048*	(e)	(e)	P=0.253
POLY 3	P=0.038*	(e)	(e)	P=0.219
POLY 1.5	P=0.038*	(e)	(e)	P=0.223
POLY 6	P=0.038*	(e)	(e)	P=0.220
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.253
COCH-ARM / FISHERS	P=0.042*	(e)	(e)	P=0.247
ORDER RESTRICTED	P=0.024*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.034*	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Skin: Site of Application - Dermis
 Fibrosis

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/44.00	1/42.39	0/39.72	1/40.66
POLY-3 PERCENT (g)	0%	2.4%	0%	2.5%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	---	616	---	716

STATISTICAL TESTS

LIFE TABLE	P=0.453	P=0.477	(e)	P=0.506
POLY 3	P=0.440	P=0.493	(e)	P=0.484
POLY 1.5	P=0.443	P=0.494	(e)	P=0.487
POLY 6	P=0.441	P=0.495	(e)	P=0.485
LOGISTIC REGRESSION	P=0.465	P=0.579	(e)	P=0.486
COCH-ARM / FISHERS	P=0.459	P=0.500	(e)	P=0.500
ORDER RESTRICTED	P=0.235	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.257	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Skin: Site of Application - Dermis
 Inflammation

LESION RATES

OVERALL (a)	0/50 (0%)	5/50 (10%)	12/50 (24%)	49/50 (98%)
POLY-3 RATE (b)	0/44.00	5/42.68	12/42.16	49/49.00
POLY-3 PERCENT (g)	0%	11.7%	28.5%	100%
TERMINAL (d)	0/29 (0%)	3/32 (9%)	8/24 (33%)	31/31 (100%)
FIRST INCIDENCE	---	616	442	246

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P=0.037*	P<0.001**	P<0.001**
POLY 3	P<0.001**	P=0.028*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.028*	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.029*	P<0.001**	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P=0.031*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.028*	P<0.001**	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Skin: Site of Application - Epidermis
 Hyperkeratosis

LESION RATES

OVERALL (a)	0/50 (0%)	6/50 (12%)	49/50 (98%)	48/50 (96%)
POLY-3 RATE (b)	0/44.00	6/43.23	49/49.94	48/49.00
POLY-3 PERCENT (g)	0%	13.9%	98.1%	98%
TERMINAL (d)	0/29 (0%)	4/32 (13%)	24/24 (100%)	30/31 (97%)
FIRST INCIDENCE	---	390	442	246

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P=0.022*	P<0.001**	P<0.001**
POLY 3	P<0.001**	P=0.014*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.014*	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.015*	P<0.001**	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P=0.022*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.013*	P<0.001**	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Skin: Site of Application - Epidermis
 Hyperplasia

LESION RATES

OVERALL (a)	4/50 (8%)	6/50 (12%)	25/50 (50%)	49/50 (98%)
POLY-3 RATE (b)	4/44.17	6/43.42	25/43.71	49/49.00
POLY-3 PERCENT (g)	9.1%	13.8%	57.2%	100%
TERMINAL (d)	3/29 (10%)	3/32 (9%)	15/24 (63%)	31/31 (100%)
FIRST INCIDENCE	687	466	442	246

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P=0.389	P<0.001**	P<0.001**
POLY 3	P<0.001**	P=0.358	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.359	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.370	P<0.001**	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P=0.383	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.370	P<0.001**	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Skin: Site of Application - Epidermis
 Necrosis

LESION RATES

OVERALL (a)	0/50 (0%)	4/50 (8%)	0/50 (0%)	5/50 (10%)
POLY-3 RATE (b)	0/44.00	4/42.68	0/39.72	5/42.26
POLY-3 PERCENT (g)	0%	9.4%	0%	11.8%
TERMINAL (d)	0/29 (0%)	2/32 (6%)	0/24 (0%)	1/31 (3%)
FIRST INCIDENCE	---	616	---	246

STATISTICAL TESTS

LIFE TABLE	P=0.056	P=0.066	(e)	P=0.035*
POLY 3	P=0.043*	P=0.056	(e)	P=0.027*
POLY 1.5	P=0.044*	P=0.057	(e)	P=0.027*
POLY 6	P=0.046*	P=0.058	(e)	P=0.028*
LOGISTIC REGRESSION	P=0.073	P=0.063	(e)	P=0.053
COCH-ARM / FISHERS	P=0.051	P=0.059	(e)	P=0.028*
ORDER RESTRICTED	P=0.008**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.011*	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Skin: Site of Application - Epidermis
 Ulcer

LESION RATES

OVERALL (a)	0/50 (0%)	4/50 (8%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/44.00	4/42.39	0/39.72	1/41.35
POLY-3 PERCENT (g)	0%	9.4%	0%	2.4%
TERMINAL (d)	0/29 (0%)	3/32 (9%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	---	616	---	467

STATISTICAL TESTS

LIFE TABLE	P=0.487N	P=0.070	(e)	P=0.488
POLY 3	P=0.509N	P=0.055	(e)	P=0.488
POLY 1.5	P=0.506N	P=0.057	(e)	P=0.489
POLY 6	P=0.503N	P=0.056	(e)	P=0.490
LOGISTIC REGRESSION	P=0.459N	P=0.058	(e)	P=0.708
COCH-ARM / FISHERS	P=0.487N	P=0.059	(e)	P=0.500
ORDER RESTRICTED	P=0.204	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.223	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Spleen
 Hematopoietic Cell Proliferation**

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/44.11	2/43.24	1/40.26	0/40.61
POLY-3 PERCENT (g)	4.5%	4.6%	2.5%	0%
TERMINAL (d)	1/29 (3%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	701	467	561	---

STATISTICAL TESTS

LIFE TABLE	P=0.155N	P=0.691N	P=0.551N	P=0.232N
POLY 3	P=0.155N	P=0.687	P=0.532N	P=0.256N
POLY 1.5	P=0.153N	P=0.687	P=0.519N	P=0.252N
POLY 6	P=0.156N	P=0.693	P=0.547N	P=0.255N
LOGISTIC REGRESSION	P=0.077N	P=0.568N	P=0.462N	P=0.252N
COCH-ARM / FISHERS	P=0.142N	P=0.691N	P=0.500N	P=0.247N
ORDER RESTRICTED	P=0.168N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.189N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Spleen
 Hemorrhage

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/44.00	0/41.99	0/39.72	1/41.35
POLY-3 PERCENT (g)	0%	0%	0%	2.4%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	467

STATISTICAL TESTS

LIFE TABLE	P=0.210	(e)	(e)	P=0.488
POLY 3	P=0.209	(e)	(e)	P=0.488
POLY 1.5	P=0.209	(e)	(e)	P=0.489
POLY 6	P=0.210	(e)	(e)	P=0.490
LOGISTIC REGRESSION	P=0.379	(e)	(e)	P=0.708
COCH-ARM / FISHERS	P=0.215	(e)	(e)	P=0.500
ORDER RESTRICTED	P=0.108	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.126	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Spleen
 Hyperplasia Lymphoid**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.00	0/41.99	0/39.72	0/40.61
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Spleen
 Infarct

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/44.00	2/42.93	1/40.07	0/40.61
POLY-3 PERCENT (g)	0%	4.7%	2.5%	0%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	---	462	630	---

STATISTICAL TESTS

LIFE TABLE	P=0.403N	P=0.232	P=0.468	(e)
POLY 3	P=0.409N	P=0.231	P=0.481	(e)
POLY 1.5	P=0.405N	P=0.232	P=0.489	(e)
POLY 6	P=0.407N	P=0.235	P=0.473	(e)
LOGISTIC REGRESSION	P=0.267N	P=0.391	P=0.573	(e)
COCH-ARM / FISHERS	P=0.385N	P=0.247	P=0.500	(e)
ORDER RESTRICTED	P=0.316	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.339	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Stomach, Forestomach
 Edema

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.17	0/41.99	0/39.72	0/40.61
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	687	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.488N	P=0.516N	P=0.554N	P=0.528N
POLY 3	P=0.462N	P=0.510N	P=0.521N	P=0.517N
POLY 1.5	P=0.464N	P=0.507N	P=0.512N	P=0.514N
POLY 6	P=0.461N	P=0.510N	P=0.532N	P=0.517N
LOGISTIC REGRESSION	P=0.477N	P=0.501N	P=0.508N	P=0.507N
COCH-ARM / FISHERS	P=0.471N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.134N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.156N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Stomach, Forestomach
 Inflammation**

LESION RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/44.22	1/42.28	1/40.11	2/41.47
POLY-3 PERCENT (g)	2.3%	2.4%	2.5%	4.8%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	673	649	617	467

STATISTICAL TESTS

LIFE TABLE	P=0.346	P=0.743	P=0.708	P=0.474
POLY 3	P=0.345	P=0.751	P=0.739	P=0.478
POLY 1.5	P=0.346	P=0.753	P=0.748	P=0.480
POLY 6	P=0.348	P=0.752	P=0.728	P=0.481
LOGISTIC REGRESSION	P=0.445	P=0.745N	P=0.720N	P=0.592
COCH-ARM / FISHERS	P=0.361	P=0.753N	P=0.753N	P=0.500
ORDER RESTRICTED	P=0.386	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.403	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

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 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Stomach, Forestomach
 Ulcer**

LESION RATES

OVERALL (a)	3/50 (6%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	3/44.36	0/41.99	1/40.37	2/41.62
POLY-3 PERCENT (g)	6.8%	0%	2.5%	4.8%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	673	---	513	467

STATISTICAL TESTS

LIFE TABLE	P=0.547	P=0.118N	P=0.376N	P=0.525N
POLY 3	P=0.567	P=0.128N	P=0.339N	P=0.529N
POLY 1.5	P=0.564	P=0.126N	P=0.325N	P=0.525N
POLY 6	P=0.571	P=0.129N	P=0.358N	P=0.525N
LOGISTIC REGRESSION	P=0.619N	P=0.126N	P=0.232N	P=0.441N
COCH-ARM / FISHERS	P=0.571	P=0.121N	P=0.309N	P=0.500N
ORDER RESTRICTED	P=0.214N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.234N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

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 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Stomach, Forestomach: Epithelium
 Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.00	0/41.99	0/39.72	0/40.61
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

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 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Stomach, Glandular
 Erosion**

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	2/44.15	1/42.74	2/40.43	0/40.61
POLY-3 PERCENT (g)	4.5%	2.3%	5%	0%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	698	462	561	---

STATISTICAL TESTS

LIFE TABLE	P=0.228N	P=0.481N	P=0.625	P=0.236N
POLY 3	P=0.227N	P=0.511N	P=0.662	P=0.256N
POLY 1.5	P=0.224N	P=0.509N	P=0.675	P=0.253N
POLY 6	P=0.227N	P=0.509N	P=0.647	P=0.256N
LOGISTIC REGRESSION	P=0.151N	P=0.393N	P=0.671N	P=0.254N
COCH-ARM / FISHERS	P=0.209N	P=0.500N	P=0.691N	P=0.247N
ORDER RESTRICTED	P=0.171N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.193N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
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 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Stomach, Glandular
 Inflammation**

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/44.22	0/41.99	1/40.11	0/40.61
POLY-3 PERCENT (g)	2.3%	0%	2.5%	0%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	673	---	617	---

STATISTICAL TESTS

LIFE TABLE	P=0.481N	P=0.516N	P=0.708	P=0.533N
POLY 3	P=0.467N	P=0.510N	P=0.739	P=0.517N
POLY 1.5	P=0.466N	P=0.507N	P=0.748	P=0.514N
POLY 6	P=0.467N	P=0.510N	P=0.728	P=0.517N
LOGISTIC REGRESSION	P=0.431N	P=0.490N	P=0.720N	P=0.497N
COCH-ARM / FISHERS	P=0.459N	P=0.500N	P=0.753N	P=0.500N
ORDER RESTRICTED	P=0.267N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.291N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Thymus
 Cyst

LESION RATES

OVERALL (a)	0/45 (0%)	0/49 (0%)	0/48 (0%)	2/45 (4%)
POLY-3 RATE (b)	0/39.30	0/41.53	0/38.42	2/37.50
POLY-3 PERCENT (g)	0%	0%	0%	5.3%
TERMINAL (d)	0/26 (0%)	0/32 (0%)	0/24 (0%)	1/28 (4%)
FIRST INCIDENCE	---	---	---	664

STATISTICAL TESTS

LIFE TABLE	P=0.042*	(e)	(e)	P=0.236
POLY 3	P=0.035*	(e)	(e)	P=0.226
POLY 1.5	P=0.035*	(e)	(e)	P=0.227
POLY 6	P=0.035*	(e)	(e)	P=0.229
LOGISTIC REGRESSION	P=0.036*	(e)	(e)	P=0.228
COCH-ARM / FISHERS	P=0.038*	(e)	(e)	P=0.247
ORDER RESTRICTED	P=0.027*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.031*	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
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 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Thyroid Gland: C-Cell
 Hyperplasia**

LESION RATES

OVERALL (a)	33/50 (66%)	30/50 (60%)	20/50 (40%)	24/50 (48%)
POLY-3 RATE (b)	33/47.18	30/45.34	20/41.85	24/42.87
POLY-3 PERCENT (g)	70%	66.2%	47.8%	56%
TERMINAL (d)	21/29 (72%)	20/32 (63%)	14/24 (58%)	18/31 (58%)
FIRST INCIDENCE	565	485	561	499

STATISTICAL TESTS

LIFE TABLE	P=0.075N	P=0.272N	P=0.100N	P=0.064N
POLY 3	P=0.098N	P=0.432N	P=0.021N*	P=0.116N
POLY 1.5	P=0.089N	P=0.406N	P=0.013N*	P=0.098N
POLY 6	P=0.105N	P=0.426N	P=0.039N*	P=0.124N
LOGISTIC REGRESSION	P=0.101N	P=0.443N	P=0.028N*	P=0.112N
COCH-ARM / FISHERS	P=0.058N	P=0.339N	P=0.008N**	P=0.053N
ORDER RESTRICTED	P=0.047N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.063N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 1,2-Dibromo-2,4-dicyanobutane
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 12:46:31
 First Dose M/F: 07/10/02 / 07/11/02
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

**Trachea
 Inflammation**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/44.00	0/41.99	1/40.07	0/40.61
POLY-3 PERCENT (g)	0%	0%	2.5%	0%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	630	---

STATISTICAL TESTS

LIFE TABLE	P=0.783N	(e)	P=0.468	(e)
POLY 3	P=0.794N	(e)	P=0.481	(e)
POLY 1.5	P=0.792N	(e)	P=0.489	(e)
POLY 6	P=0.794N	(e)	P=0.473	(e)
LOGISTIC REGRESSION	P=0.766N	(e)	P=0.573	(e)
COCH-ARM / FISHERS	P=0.785N	(e)	P=0.500	(e)
ORDER RESTRICTED	P=0.365	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.386	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Uterus
 Hemorrhage

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/44.51	0/41.99	2/39.72	0/40.61
POLY-3 PERCENT (g)	2.3%	0%	5%	0%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	2/24 (8%)	0/31 (0%)
FIRST INCIDENCE	575	---	729 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.453N	P=0.522N	P=0.446	P=0.527N
POLY 3	P=0.469N	P=0.512N	P=0.460	P=0.518N
POLY 1.5	P=0.466N	P=0.508N	P=0.477	P=0.514N
POLY 6	P=0.470N	P=0.512N	P=0.441	P=0.519N
LOGISTIC REGRESSION	P=0.453N	P=0.348N	P=0.506	P=0.411N
COCH-ARM / FISHERS	P=0.450N	P=0.500N	P=0.500	P=0.500N
ORDER RESTRICTED	P=0.322N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.347N	(e)	(e)	(e)

TDMS No. 97003 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344

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 1,2-Dibromo-2,4-dicyanobutane
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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Uterus
 Inflammation

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/44.16	0/41.99	0/39.72	0/40.61
POLY-3 PERCENT (g)	4.5%	0%	0%	0%
TERMINAL (d)	1/29 (3%)	0/32 (0%)	0/24 (0%)	0/31 (0%)
FIRST INCIDENCE	690	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.245N	P=0.229N	P=0.290N	P=0.239N
POLY 3	P=0.230N	P=0.248N	P=0.261N	P=0.256N
POLY 1.5	P=0.232N	P=0.245N	P=0.251N	P=0.253N
POLY 6	P=0.230N	P=0.248N	P=0.274N	P=0.256N
LOGISTIC REGRESSION	P=0.248N	P=0.246N	P=0.271N	P=0.254N
COCH-ARM / FISHERS	P=0.238N	P=0.247N	P=0.247N	P=0.247N
ORDER RESTRICTED	P=0.038N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.050N*	(e)	(e)	(e)

TDMS No. 97003 - 07
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 Species/Strain: RATS/F 344

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 1,2-Dibromo-2,4-dicyanobutane
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG

Uterus: Endometrium
 Hyperplasia Cystic

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	2/44.00	1/41.99	2/39.88	3/40.61
POLY-3 PERCENT (g)	4.6%	2.4%	5%	7.4%
TERMINAL (d)	2/29 (7%)	1/32 (3%)	1/24 (4%)	3/31 (10%)
FIRST INCIDENCE	729 (T)	729 (T)	687	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.314	P=0.465N	P=0.617	P=0.531
POLY 3	P=0.280	P=0.516N	P=0.658	P=0.463
POLY 1.5	P=0.283	P=0.512N	P=0.673	P=0.470
POLY 6	P=0.280	P=0.515N	P=0.642	P=0.465
LOGISTIC REGRESSION	P=0.290	P=0.465N	P=0.628	P=0.531
COCH-ARM / FISHERS	P=0.303	P=0.500N	P=0.691N	P=0.500
ORDER RESTRICTED	P=0.318	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.341	(e)	(e)	(e)

TDMS No. 97003 - 07
Test Type: CHRONIC
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P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

1,2-Dibromo-2,4-dicyanobutane

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LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) Number of tumor-bearing animals/Poly-3 number
 - (d) Observed incidence at terminal kill.
 - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group. The life table analysis regards tumors in animals dying prior to terminal kill as being (directly or indirectly) the cause of death.
 - (e) Value of Statistic cannot be computed.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (I) Interim sacrifice
 - (T) Terminal sacrifice
 - # Tumor rates based on numbers of animals necropsied.
 - * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
 - ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
 - N Indicates a negative trend for all tests
- Logistic regression is an alternative method for analyzing the incidence of non-fatal tumors.
The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***