

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

C Number:	C62077D
Lock Date:	11/19/1992
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF 2-BUTOXYETHANOL (ETHYLENE

MALE RAT

Organ

Bone Marrow

Epididymis

Kidney: Renal Tubule

Liver

Liver: Kupffer Cell

Spleen

Stomach, Forestomach

Stomach, Forestomach: Epithelium

FEMALE RAT

Organ

Bone Marrow

Bone Marrow: Tail, Vertebra

Kidney: Renal Tubule

Liver

Liver: Centrilobular

Liver: Kupffer Cell

Liver: Vein

Lung

Nose

Nose: Respirat Epith

Ovary

Salivary Glands

Spleen

Stomach, Forestomach

Morphology

Hyperplasia

Granuloma Sperm

Pigmentation

Regeneration

Hepatodiaphragmatic Nodule

Pigmentation

Hematopoietic Cell Proliferation

Inflammation

Hyperplasia

Morphology

Hyperplasia

Inflammation Granulomatous

Inflammation

Necrosis

Degeneration

Pigmentation

Necrosis

Degeneration

Pigmentation

Thrombosis

Thrombosis

Inflammation

Thrombosis

Metaplasia

Cyst

Necrosis

Hematopoietic Cell Proliferation

Inflammation

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF 2-BUTOXYETHANOL (ETHYLENE

Stomach, Forestomach: Epithelium
Thymus

Necrosis
Ulcer
Hyperplasia
Atrophy

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Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Adrenal Cortex						
Vacuolization Cytoplasmic						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Bone						
Fracture						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Bone Marrow						
Hyperplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	93(T)	93(T)
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	(e)	P=NA	P=NA
POLY 1.5	P=0.000**	(e)	(e)	(e)	P=NA	P=NA
POLY 6	P=0.000**	(e)	(e)	(e)	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

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Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Bone Marrow						
Inflammation Granulomatous						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Bone Marrow: Tail, Vertebra Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Bone Marrow: Tail, Vertebra						
Necrosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Bone, Femur						
Thrombosis						
LESION RATES						
OVERALL(a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

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First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Bone, Vertebra: Blood Vessel, Tail						
Thrombosis						
LESION RATES						
OVERALL(a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Bone, Vertebra: Tail						
Infarct						
LESION RATES						
OVERALL(a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Brain						
Developmental Malformation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Brain						
Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

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Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Brain						
Mineralization						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Epididymis						
Granuloma Sperm						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	1/1.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	100%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	93(T)	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	P=0.091	(e)	(e)
POLY 1.5	(e)	(e)	(e)	P=0.091	(e)	(e)
POLY 6	(e)	(e)	(e)	P=0.091	(e)	(e)
COCH-ARM / FISHERS	P=0.510N	(e)	(e)	P=0.091	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.000**	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Heart						
Angiectasis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Heart						
Cardiomyopathy						
LESION RATES						
OVERALL(a)	9/10 (90%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	10/10 (100%)
POLY-3 RATE (b)	9/10.00	0/0.00	0/0.00	0/0.00	0/0.00	10/10.00
POLY-3 PERCENT (g)	90%	0%	0%	0%	0%	100%
TERMINAL (d)	9/10 (90%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	10/10 (100%)
FIRST INCIDENCE	93(T)	---	---	---	---	93(T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.304	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.159
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Heart: Atrium						
Thrombosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Kidney						
Nephropathy						
LESION RATES						
OVERALL(a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.416N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 1.5	P=0.416N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 6	P=0.416N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
COCH-ARM / FISHERS	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.075N	P=0.159N	P=0.159N	P=0.159N	P=0.159N	P=0.159N
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Kidney: Renal Tubule Degeneration						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Kidney: Renal Tubule Pigmentation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	8/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	80%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	93(T)	93(T)
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	(e)	P=0.000**	P=NA
POLY 1.5	P=0.000**	(e)	(e)	(e)	P=0.000**	P=NA
POLY 6	P=0.000**	(e)	(e)	(e)	P=0.000**	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	P=0.000**	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Kidney: Renal Tubule Regeneration						
LESION RATES						
OVERALL(a)	4/10 (40%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	4/10.00	0/10.00	1/10.00	1/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	40%	0%	10%	10%	0%	0%
TERMINAL (d)	4/10 (40%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	93(T)	---	93(T)	93(T)	---	---
STATISTICAL TESTS						
POLY 3	P=0.038N*	P=0.033N*	P=0.148N	P=0.148N	P=0.033N*	P=0.033N*
POLY 1.5	P=0.038N*	P=0.033N*	P=0.148N	P=0.148N	P=0.033N*	P=0.033N*
POLY 6	P=0.038N*	P=0.033N*	P=0.148N	P=0.148N	P=0.033N*	P=0.033N*
COCH-ARM / FISHERS	P=0.050N*	P=0.043N*	P=0.152N	P=0.152N	P=0.043N*	P=0.043N*
MAX-ISO-POLY-3	P=0.001N**	P=0.007N**	P=0.059N	P=0.059N	P=0.007N**	P=0.007N**
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Larynx						
Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Larynx						
Metaplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Liver						
Basophilic Focus						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Liver						
Eosinophilic Focus						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Liver						
Hepatodiaphragmatic Nodule						
LESION RATES						
OVERALL(a)	0/10 (0%)	3/10 (30%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	3/10.00	0/10.00	1/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	30%	0%	10%	0%	10%
TERMINAL (d)	0/10 (0%)	3/10 (30%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	93(T)	---	93(T)	---	93(T)
STATISTICAL TESTS						
POLY 3	P=0.540N	P=0.095	(e)	P=0.500	(e)	P=0.500
POLY 1.5	P=0.540N	P=0.095	(e)	P=0.500	(e)	P=0.500
POLY 6	P=0.540N	P=0.095	(e)	P=0.500	(e)	P=0.500
COCH-ARM / FISHERS	P=0.539N	P=0.105	(e)	P=0.500	(e)	P=0.500
MAX-ISO-POLY-3	P=0.373	P=0.025*	(e)	P=0.159	(e)	P=0.159
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Liver						
Necrosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Liver: Centrilobular Degeneration						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Liver: Kupffer Cell Pigmentation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	7/10 (70%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	7/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	70%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	7/10 (70%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	93(T)	93(T)	93(T)
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	P=0.000**	P=NA	P=NA
POLY 1.5	P=0.000**	(e)	(e)	P=0.000**	P=NA	P=NA
POLY 6	P=0.000**	(e)	(e)	P=0.000**	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.002**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	P=0.000**	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Liver: Vein						
Thrombosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Lung						
Foreign Body						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/1.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Lung						
Hemorrhage						
LESION RATES						
OVERALL(a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/1.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	P=0.913N	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	P=0.913N	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	P=0.913N	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.310N	(e)	(e)	P=0.909N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.411N	(e)	P=0.159N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Lung						
Inflammation Granulomatous Focal						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/1.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Lung						
Thrombosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/1.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Lung: Alveolus						
Infiltration Cellular Histiocyte						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/1.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Lymph Node: Renal						
Inflammation Granulomatous						
LESION RATES						
OVERALL(a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Mesentery: Fat						
Necrosis						
LESION RATES						
OVERALL(a)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	1/1.00	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	100%	0%	0%	0%	0%	0%
TERMINAL (d)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Nose						
Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Nose						
Thrombosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Nose: Respirat Epith Metaplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Pancreas						
Atrophy						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Salivary Glands						
Necrosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Skin: Tail						
Necrosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Spleen						
Accessory Spleen						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	93(T)	---
STATISTICAL TESTS						
POLY 3	P=0.584	(e)	(e)	(e)	P=0.500	(e)
POLY 1.5	P=0.584	(e)	(e)	(e)	P=0.500	(e)
POLY 6	P=0.584	(e)	(e)	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.585	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.356	(e)	(e)	(e)	P=0.159	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Spleen						
Atrophy						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Spleen						
Hematopoietic Cell Proliferation						
LESION RATES						
OVERALL(a)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	1/10.00	0/10.00	0/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	10%	0%	0%	100%	100%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	93(T)	---	---	93(T)	93(T)
STATISTICAL TESTS						
POLY 3	P=0.000**	P=0.500	(e)	(e)	P=NA	P=NA
POLY 1.5	P=0.000**	P=0.500	(e)	(e)	P=NA	P=NA
POLY 6	P=0.000**	P=0.500	(e)	(e)	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	P=0.500	(e)	(e)	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	P=0.159	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Stomach, Forestomach Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	2/10.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	20%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	93(T)	93(T)
STATISTICAL TESTS						
POLY 3	P=0.012*	(e)	(e)	(e)	P=0.227	P=0.227
POLY 1.5	P=0.012*	(e)	(e)	(e)	P=0.227	P=0.227
POLY 6	P=0.012*	(e)	(e)	(e)	P=0.227	P=0.227
COCH-ARM / FISHERS	P=0.014*	(e)	(e)	(e)	P=0.237	P=0.237
MAX-ISO-POLY-3	P=0.021*	(e)	(e)	(e)	P=0.067	P=0.067
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Stomach, Forestomach						
Necrosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Stomach, Forestomach Ulcer						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Stomach, Forestomach: Epithelium						
Hyperplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	3/10.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	30%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	93(T)	93(T)
STATISTICAL TESTS						
POLY 3	P=0.009**	(e)	(e)	(e)	P=0.095	P=0.227
POLY 1.5	P=0.009**	(e)	(e)	(e)	P=0.095	P=0.227
POLY 6	P=0.009**	(e)	(e)	(e)	P=0.095	P=0.227
COCH-ARM / FISHERS	P=0.013*	(e)	(e)	(e)	P=0.105	P=0.237
MAX-ISO-POLY-3	P=0.016*	(e)	(e)	(e)	P=0.025*	P=0.067
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Testes						
Atrophy						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93(T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.304	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.159
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Thymus						
Atrophy						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Thyroid Gland: C Cell						
Hyperplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Tooth, Incisor: Odontoblast Degeneration						
LESION RATES						
OVERALL(a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Tooth, Incisor: Pulp						
Thrombosis						
LESION RATES						
OVERALL(a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Adrenal Cortex						
Vacuolization Cytoplasmic						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/9.16	1/6.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	16.6%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.403
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.409
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.402
COCH-ARM / FISHERS	P=0.267	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.154
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Bone Fracture						
LESION RATES						
OVERALL(a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/10.00	0/9.16	0/4.04
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/4 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.327N	P=0.500N	P=0.500N	P=0.500N	P=0.518N	P=0.653N
POLY 1.5	P=0.328N	P=0.500N	P=0.500N	P=0.500N	P=0.512N	P=0.648N
POLY 6	P=0.325N	P=0.500N	P=0.500N	P=0.500N	P=0.520N	P=0.655N
COCH-ARM / FISHERS	P=0.427N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.526N
MAX-ISO-POLY-3	P=0.427N	P=0.159N	P=0.159N	P=0.159N	P=0.181N	P=0.341N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:08

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Bone Marrow						
Hyperplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	8/10 (80%)	10/10 (100%)	10/10 (100%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	0/10.00	8/10.00	10/10.00	10/10.00	6/6.00
POLY-3 PERCENT (g)	0%	0%	80%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	8/10 (80%)	10/10 (100%)	9/9 (100%)	5/5 (100%)
FIRST INCIDENCE	---	---	93(T)	93(T)	50	32
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	P=0.000**	P=NA	P=NA	P=0.000**
POLY 1.5	P=0.000**	(e)	P=0.000**	P=NA	P=NA	P=0.000**
POLY 6	P=0.000**	(e)	P=0.000**	P=NA	P=NA	P=0.000**
COCH-ARM / FISHERS	P=0.006**	(e)	P=0.000**	P=0.000**	P=0.000**	P=0.005**
MAX-ISO-POLY-3	P=0.000**	(e)	P=0.000**	(e)	(e)	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Bone Marrow						
Inflammation Granulomatous						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	3/10 (30%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	3/10.00	0/10.00	0/9.16	0/5.04
POLY-3 PERCENT (g)	0%	0%	30%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	3/10 (30%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	93(T)	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.315N	(e)	P=0.095	(e)	(e)	(e)
POLY 1.5	P=0.306N	(e)	P=0.095	(e)	(e)	(e)
POLY 6	P=0.318N	(e)	P=0.095	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.277N	(e)	P=0.105	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.518N	(e)	P=0.025*	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Bone Marrow: Tail, Vertebra Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/9.16	2/5.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	39.7%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	2/5 (40%)
FIRST INCIDENCE	---	---	---	---	---	93(T)
STATISTICAL TESTS						
POLY 3	P=0.011*	(e)	(e)	(e)	(e)	P=0.102
POLY 1.5	P=0.010**	(e)	(e)	(e)	(e)	P=0.106
POLY 6	P=0.010**	(e)	(e)	(e)	(e)	P=0.101
COCH-ARM / FISHERS	P=0.010**	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.007**	(e)	(e)	(e)	(e)	P=0.053
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Bone Marrow: Tail, Vertebra						
Necrosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/9.16	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	5/5 (100%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	(e)	(e)	P=NA
POLY 1.5	P=0.000**	(e)	(e)	(e)	(e)	P=NA
POLY 6	P=0.000**	(e)	(e)	(e)	(e)	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	(e)	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Bone, Femur						
Thrombosis						
LESION RATES						
OVERALL(a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/2 (100%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00	2/2.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	100%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/2 (100%)
FIRST INCIDENCE	---	---	---	---	---	4(T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Bone, Vertebra: Blood Vessel, Tail						
Thrombosis						
LESION RATES						
OVERALL(a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00	4/9.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	44.2%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=1.000N	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Bone, Vertebra: Tail						
Infarct						
LESION RATES						
OVERALL(a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	100%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	5/5 (100%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Brain						
Developmental Malformation						
LESION RATES						
OVERALL(a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/9.16	0/5.04
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.518N	P=0.622N
POLY 1.5	(e)	(e)	(e)	(e)	P=0.512N	P=0.617N
POLY 6	(e)	(e)	(e)	(e)	P=0.520N	P=0.623N
COCH-ARM / FISHERS	P=0.267N	(e)	(e)	(e)	P=0.500N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.181N	P=0.308N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Brain						
Inflammation						
LESION RATES						
OVERALL(a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/9.16	0/5.04
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.518N	P=0.622N
POLY 1.5	(e)	(e)	(e)	(e)	P=0.512N	P=0.617N
POLY 6	(e)	(e)	(e)	(e)	P=0.520N	P=0.623N
COCH-ARM / FISHERS	P=0.267N	(e)	(e)	(e)	P=0.500N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.181N	P=0.308N
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Brain						
Mineralization						
LESION RATES						
OVERALL(a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/9.16	0/5.04
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.518N	P=0.622N
POLY 1.5	(e)	(e)	(e)	(e)	P=0.512N	P=0.617N
POLY 6	(e)	(e)	(e)	(e)	P=0.520N	P=0.623N
COCH-ARM / FISHERS	P=0.267N	(e)	(e)	(e)	P=0.500N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.181N	P=0.308N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Heart						
Angiectasis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	1/9.16	0/5.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	10.9%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	93(T)	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.482	(e)
POLY 1.5	(e)	(e)	(e)	(e)	P=0.488	(e)
POLY 6	(e)	(e)	(e)	(e)	P=0.479	(e)
COCH-ARM / FISHERS	P=0.733	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.158	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Heart						
Cardiomyopathy						
LESION RATES						
OVERALL(a)	7/10 (70%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	8/10 (80%)	8/10 (80%)
POLY-3 RATE (b)	7/10.00	0/0.00	0/0.00	0/0.00	8/9.16	8/9.00
POLY-3 PERCENT (g)	70%	0%	0%	0%	87.3%	88.9%
TERMINAL (d)	7/10 (70%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	8/9 (89%)	4/5 (80%)
FIRST INCIDENCE	93(T)	---	---	---	93(T)	4
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.360	P=0.333
POLY 1.5	(e)	(e)	(e)	(e)	P=0.401	P=0.334
POLY 6	(e)	(e)	(e)	(e)	P=0.337	P=0.333
COCH-ARM / FISHERS	P=0.396	(e)	(e)	(e)	P=0.500	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.193	P=0.176
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Heart: Atrium						
Thrombosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/9.16	1/6.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	16.6%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.403
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.409
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.402
COCH-ARM / FISHERS	P=0.267	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.154
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Kidney						
Nephropathy						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/9.16	0/5.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Kidney: Renal Tubule Degeneration						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/9.16	4/9.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	44.2%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	(e)	(e)	P=0.022*
POLY 1.5	P=0.000**	(e)	(e)	(e)	(e)	P=0.024*
POLY 6	P=0.000**	(e)	(e)	(e)	(e)	P=0.022*
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	(e)	P=0.043*
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)	P=0.006**
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Kidney: Renal Tubule Pigmentation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)	7/10 (70%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	10/10.00	10/10.00	7/7.00
POLY-3 PERCENT (g)	0%	0%	0%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	9/9 (100%)	5/5 (100%)
FIRST INCIDENCE	---	---	---	93(T)	50	4
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	P=NA	P=NA	P=0.000**
POLY 1.5	P=0.000**	(e)	(e)	P=NA	P=NA	P=0.000**
POLY 6	P=0.000**	(e)	(e)	P=NA	P=NA	P=0.000**
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.000**	P=0.000**	P=0.002**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Kidney: Renal Tubule Regeneration						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00	0/5.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	50	---
STATISTICAL TESTS						
POLY 3	P=0.259	(e)	(e)	(e)	P=0.500	(e)
POLY 1.5	P=0.267	(e)	(e)	(e)	P=0.500	(e)
POLY 6	P=0.258	(e)	(e)	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.585	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.474	(e)	(e)	(e)	P=0.159	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Larynx						
Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	1/10.00	0/5.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	50	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.500	(e)
POLY 1.5	(e)	(e)	(e)	(e)	P=0.500	(e)
POLY 6	(e)	(e)	(e)	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.733	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.159	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Larynx						
Metaplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	2/10.00	0/5.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	20%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	50	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.227	(e)
POLY 1.5	(e)	(e)	(e)	(e)	P=0.227	(e)
POLY 6	(e)	(e)	(e)	(e)	P=0.227	(e)
COCH-ARM / FISHERS	P=0.673	(e)	(e)	(e)	P=0.237	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.067	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Liver						
Basophilic Focus						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/10.00	0/9.16	0/5.04
POLY-3 PERCENT (g)	0%	0%	10%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	93(T)	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.536N	(e)	P=0.500	(e)	(e)	(e)
POLY 1.5	P=0.531N	(e)	P=0.500	(e)	(e)	(e)
POLY 6	P=0.536N	(e)	P=0.500	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.561N	(e)	P=0.500	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.682N	(e)	P=0.159	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Liver						
Eosinophilic Focus						
LESION RATES						
OVERALL(a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/10.00	0/9.16	0/5.04
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.321N	P=0.500N	P=0.500N	P=0.500N	P=0.518N	P=0.622N
POLY 1.5	P=0.322N	P=0.500N	P=0.500N	P=0.500N	P=0.512N	P=0.617N
POLY 6	P=0.319N	P=0.500N	P=0.500N	P=0.500N	P=0.520N	P=0.623N
COCH-ARM / FISHERS	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.352N	P=0.159N	P=0.159N	P=0.159N	P=0.181N	P=0.308N
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Liver						
Hepatodiaphragmatic Nodule						
LESION RATES						
OVERALL(a)	1/10 (10%)	1/10 (10%)	4/10 (40%)	1/10 (10%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	1/10.00	1/10.00	4/10.00	1/10.00	0/9.16	2/6.00
POLY-3 PERCENT (g)	10%	10%	40%	10%	0%	33.3%
TERMINAL (d)	1/10 (10%)	1/10 (10%)	4/10 (40%)	1/10 (10%)	0/9 (0%)	1/5 (20%)
FIRST INCIDENCE	93(T)	93(T)	93(T)	93(T)	---	32
STATISTICAL TESTS						
POLY 3	P=0.512	P=0.760	P=0.148	P=0.760	P=0.518N	P=0.324
POLY 1.5	P=0.525	P=0.760	P=0.148	P=0.760	P=0.512N	P=0.326
POLY 6	P=0.505	P=0.760	P=0.148	P=0.760	P=0.520N	P=0.324
COCH-ARM / FISHERS	P=0.565N	P=0.763N	P=0.152	P=0.763N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.338	P=1.000	P=0.059	P=1.000	P=0.181N	P=0.190
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Liver						
Necrosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00	4/9.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	44.2%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	50	4
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	(e)	P=0.500	P=0.022*
POLY 1.5	P=0.000**	(e)	(e)	(e)	P=0.500	P=0.024*
POLY 6	P=0.000**	(e)	(e)	(e)	P=0.500	P=0.022*
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	P=0.500	P=0.043*
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	P=0.159	P=0.006**
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Liver: Centrilobular Degeneration						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/9.16	4/9.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	44.2%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	(e)	(e)	P=0.022*
POLY 1.5	P=0.000**	(e)	(e)	(e)	(e)	P=0.024*
POLY 6	P=0.000**	(e)	(e)	(e)	(e)	P=0.022*
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	(e)	P=0.043*
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)	P=0.006**
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Liver: Kupffer Cell Pigmentation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	0/10.00	10/10.00	10/10.00	10/10.00	6/6.00
POLY-3 PERCENT (g)	0%	0%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)	9/9 (100%)	5/5 (100%)
FIRST INCIDENCE	---	---	93(T)	93(T)	50	32
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	P=NA	P=NA	P=NA	P=0.000**
POLY 1.5	P=0.000**	(e)	P=NA	P=NA	P=NA	P=0.000**
POLY 6	P=0.000**	(e)	P=NA	P=NA	P=NA	P=0.000**
COCH-ARM / FISHERS	P=0.014*	(e)	P=0.000**	P=0.000**	P=0.000**	P=0.005**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Liver: Vein						
Thrombosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/9.16	3/8.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	37.3%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	(e)	(e)	P=0.058
POLY 1.5	P=0.000**	(e)	(e)	(e)	(e)	P=0.061
POLY 6	P=0.000**	(e)	(e)	(e)	(e)	P=0.057
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.105
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)	P=0.021*
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Lung						
Foreign Body						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	1/10.00	0/5.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	50	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.500	(e)
POLY 1.5	(e)	(e)	(e)	(e)	P=0.500	(e)
POLY 6	(e)	(e)	(e)	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.733	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.159	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Lung						
Hemorrhage						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/9.16	0/5.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Lung						
Inflammation Granulomatous Focal						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	1/10.00	0/5.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	50	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.500	(e)
POLY 1.5	(e)	(e)	(e)	(e)	P=0.500	(e)
POLY 6	(e)	(e)	(e)	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.733	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.159	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Lung						
Thrombosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/9.16	3/8.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	37.3%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.058
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.061
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.057
COCH-ARM / FISHERS	P=0.031*	(e)	(e)	(e)	(e)	P=0.105
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.021*
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Lung: Alveolus						
Infiltration Cellular Histiocyte						
LESION RATES						
OVERALL(a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/9.16	1/5.04
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	19.8%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	1/5 (20%)
FIRST INCIDENCE	93(T)	---	---	---	---	93(T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.518N	P=0.593
POLY 1.5	(e)	(e)	(e)	(e)	P=0.512N	P=0.602
POLY 6	(e)	(e)	(e)	(e)	P=0.520N	P=0.591
COCH-ARM / FISHERS	P=0.673	(e)	(e)	(e)	P=0.500N	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.181N	P=0.360
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Lymph Node: Renal						
Inflammation Granulomatous						
LESION RATES						
OVERALL(a)	0/0 (0%)	0/0 (0%)	1/1 (100%)	1/1 (100%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	1/1.00	1/1.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	100%	100%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	1/1 (100%)	1/1 (100%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	93(T)	93(T)	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Mesentery: Fat						
Necrosis						
LESION RATES						
OVERALL(a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Nose						
Inflammation						
LESION RATES						
OVERALL(a)	2/10 (20%)	3/10 (30%)	5/10 (50%)	2/10 (20%)	8/10 (80%)	4/10 (40%)
POLY-3 RATE (b)	2/10.00	3/10.00	5/10.00	2/10.00	8/10.00	4/7.00
POLY-3 PERCENT (g)	20%	30%	50%	20%	80%	57.1%
TERMINAL (d)	2/10 (20%)	3/10 (30%)	5/10 (50%)	2/10 (20%)	7/9 (78%)	2/5 (40%)
FIRST INCIDENCE	93(T)	93(T)	93(T)	93(T)	50	4
STATISTICAL TESTS						
POLY 3	P=0.017*	P=0.500	P=0.174	P=0.702	P=0.004**	P=0.149
POLY 1.5	P=0.017*	P=0.500	P=0.174	P=0.702	P=0.004**	P=0.150
POLY 6	P=0.017*	P=0.500	P=0.174	P=0.702	P=0.004**	P=0.149
COCH-ARM / FISHERS	P=0.157	P=0.500	P=0.175	P=0.709N	P=0.012*	P=0.314
MAX-ISO-POLY-3	P=0.030*	P=0.311	P=0.080	P=1.000	P<0.001**	P=0.091
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Nose						
Thrombosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/9.16	3/8.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	37.3%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	(e)	(e)	P=0.058
POLY 1.5	P=0.000**	(e)	(e)	(e)	(e)	P=0.061
POLY 6	P=0.000**	(e)	(e)	(e)	(e)	P=0.057
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.105
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)	P=0.021*
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Nose: Respirat Epith Metaplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00	1/6.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	16.7%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	50	32
STATISTICAL TESTS						
POLY 3	P=0.048*	(e)	(e)	(e)	P=0.500	P=0.402
POLY 1.5	P=0.048*	(e)	(e)	(e)	P=0.500	P=0.403
POLY 6	P=0.048*	(e)	(e)	(e)	P=0.500	P=0.402
COCH-ARM / FISHERS	P=0.103	(e)	(e)	(e)	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.086	(e)	(e)	(e)	P=0.159	P=0.154
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Ovary						
Cyst						
LESION RATES						
OVERALL(a)	0/10 (0%)	2/2 (100%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	2/2.00	0/0.00	0/0.00	1/9.16	1/5.04
POLY-3 PERCENT (g)	0%	100%	0%	0%	10.9%	19.8%
TERMINAL (d)	0/10 (0%)	2/2 (100%)	0/0 (0%)	0/0 (0%)	1/9 (11%)	1/5 (20%)
FIRST INCIDENCE	---	93(T)	---	---	93(T)	93(T)
STATISTICAL TESTS						
POLY 3	(e)	P=NA	(e)	(e)	P=0.482	P=0.373
POLY 1.5	(e)	P=NA	(e)	(e)	P=0.488	P=0.379
POLY 6	(e)	P=NA	(e)	(e)	P=0.479	P=0.372
COCH-ARM / FISHERS	P=0.491N	P=0.015*	(e)	(e)	P=0.500	P=0.500
MAX-ISO-POLY-3	(e)	P=0.000**	(e)	(e)	P=0.158	P=0.152
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Pancreas						
Atrophy						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/9.16	1/6.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	16.6%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.403
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.409
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.402
COCH-ARM / FISHERS	P=0.267	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.154
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Salivary Glands						
Necrosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/9 (22%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/9.16	2/7.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	28.4%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	P=0.004**	(e)	(e)	(e)	(e)	P=0.148
POLY 1.5	P=0.004**	(e)	(e)	(e)	(e)	P=0.153
POLY 6	P=0.004**	(e)	(e)	(e)	(e)	P=0.147
COCH-ARM / FISHERS	P=0.008**	(e)	(e)	(e)	(e)	P=0.211
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)	(e)	P=0.055
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Skin: Tail						
Necrosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/9.16	1/6.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	16.6%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.403
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.409
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.402
COCH-ARM / FISHERS	P=0.267	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.154
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Spleen						
Accessory Spleen						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/9.16	0/5.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Spleen						
Atrophy						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/9.16	1/6.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	16.6%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	P=0.079	(e)	(e)	(e)	(e)	P=0.403
POLY 1.5	P=0.079	(e)	(e)	(e)	(e)	P=0.409
POLY 6	P=0.077	(e)	(e)	(e)	(e)	P=0.402
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.073	(e)	(e)	(e)	(e)	P=0.154
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Spleen						
Hematopoietic Cell Proliferation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)	8/10 (80%)	7/10 (70%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	10/10.00	8/9.16	7/7.00
POLY-3 PERCENT (g)	0%	0%	10%	100%	87.3%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)	8/9 (89%)	5/5 (100%)
FIRST INCIDENCE	---	---	93(T)	93(T)	93(T)	4
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	P=0.500	P=NA	P=0.000**	P=0.000**
POLY 1.5	P=0.000**	(e)	P=0.500	P=NA	P=0.000**	P=0.000**
POLY 6	P=0.000**	(e)	P=0.500	P=NA	P=0.000**	P=0.000**
COCH-ARM / FISHERS	P=0.000**	(e)	P=0.500	P=0.000**	P=0.000**	P=0.002**
MAX-ISO-POLY-3	P=0.000**	(e)	P=0.159	(e)	P=0.000**	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Stomach, Forestomach Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/10.00	0/9.16	3/8.04
POLY-3 PERCENT (g)	0%	0%	10%	0%	0%	37.3%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	93(T)	---	---	4
STATISTICAL TESTS						
POLY 3	P=0.004**	(e)	P=0.500	(e)	(e)	P=0.058
POLY 1.5	P=0.004**	(e)	P=0.500	(e)	(e)	P=0.061
POLY 6	P=0.004**	(e)	P=0.500	(e)	(e)	P=0.057
COCH-ARM / FISHERS	P=0.008**	(e)	P=0.500	(e)	(e)	P=0.105
MAX-ISO-POLY-3	P=0.003**	(e)	P=0.159	(e)	(e)	P=0.021*
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Stomach, Forestomach						
Necrosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/9.16	2/7.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	28.4%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	P=0.006**	(e)	(e)	(e)	(e)	P=0.151
POLY 1.5	P=0.006**	(e)	(e)	(e)	(e)	P=0.155
POLY 6	P=0.006**	(e)	(e)	(e)	(e)	P=0.150
COCH-ARM / FISHERS	P=0.010**	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.007**	(e)	(e)	(e)	(e)	P=0.060
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Stomach, Forestomach Ulcer						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/9.16	2/7.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	28.4%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	P=0.006**	(e)	(e)	(e)	(e)	P=0.151
POLY 1.5	P=0.006**	(e)	(e)	(e)	(e)	P=0.155
POLY 6	P=0.006**	(e)	(e)	(e)	(e)	P=0.150
COCH-ARM / FISHERS	P=0.010**	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.007**	(e)	(e)	(e)	(e)	P=0.060
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Stomach, Forestomach: Epithelium						
Hyperplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/9.16	2/6.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	10.9%	33.1%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/9 (11%)	1/5 (20%)
FIRST INCIDENCE	---	---	---	---	93(T)	4
STATISTICAL TESTS						
POLY 3	P=0.005**	(e)	(e)	(e)	P=0.482	P=0.126
POLY 1.5	P=0.005**	(e)	(e)	(e)	P=0.488	P=0.130
POLY 6	P=0.005**	(e)	(e)	(e)	P=0.479	P=0.125
COCH-ARM / FISHERS	P=0.013*	(e)	(e)	(e)	P=0.500	P=0.237
MAX-ISO-POLY-3	P=0.008**	(e)	(e)	(e)	P=0.158	P=0.057
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Thymus						
Atrophy						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/9.16	4/9.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	44.2%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	(e)	(e)	P=0.022*
POLY 1.5	P=0.000**	(e)	(e)	(e)	(e)	P=0.024*
POLY 6	P=0.000**	(e)	(e)	(e)	(e)	P=0.022*
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	(e)	P=0.043*
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)	P=0.006**
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Thyroid Gland: C Cell Hyperplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	1/9.16	0/5.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	10.9%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---	93(T)	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.482	(e)
POLY 1.5	(e)	(e)	(e)	(e)	P=0.488	(e)
POLY 6	(e)	(e)	(e)	(e)	P=0.479	(e)
COCH-ARM / FISHERS	P=0.733	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.158	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Tooth, Incisor: Odontoblast Degeneration						
LESION RATES						
OVERALL(a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/4 (100%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00	4/4.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	100%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/1 (100%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 8 WEEKS**

DOSE	FEMALE					
	CONTROL	31 PPM	62.5 PPM	125 PPM	250 PPM	500 PPM
Tooth, Incisor: Pulp						
Thrombosis						
LESION RATES						
OVERALL(a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/4 (100%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00	4/4.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	100%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/1 (100%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:25:09

First Dose M/F: NA / NA

Lab: BNW

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.
 - (e) Value of statistic cannot be computed.
 - (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.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (n) No statistics are calculated if all dose groups have fewer than two tumors.
 - (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
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

**** END OF REPORT ****