

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

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

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32141

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Regeneration	Minimal

Note: No reason seen for TGL 1.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | |
|----------|----------------|---------|
| * Heart | Cardiomyopathy | Minimal |
| * Kidney | | |

Note: No reason is seen for TGL 1.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Liver |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Lymph Node, Bronchial

OBSERVATIONS

- | | | |
|----------|----------------|---------|
| * Heart | Cardiomyopathy | Minimal |
| * Kidney | Nephropathy | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 5	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 32145
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Liver |
| * Lung | * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

INSUFFICIENT TISSUE

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|----------|--------------|----------------|---------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Regeneration | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32146

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
* Lung	Hemorrhage	Minimal

[Hemorrhage TGLS = 1-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
* Kidney	Renal Tubule Regeneration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 32148
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | |
|---------|----------------|---------|
| * Heart | Cardiomyopathy | Minimal |
|---------|----------------|---------|

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32149

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32150

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lung
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Skin
- * Testes
- * Urinary Bladder

- * Adrenal Medulla
- * Epididymis
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Bronchial
- * Nose
- * Prostate
- * Spleen
- * Thymus

- * Bone
- * Esophagus
- * Intestine Small, Duodenum
- * Larynx
- * Lymph Node, Mandibular
- * Pancreas
- * Salivary Glands
- * Stomach, Forestomach
- * Thyroid Gland

- * Bone Marrow
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Liver
- * Lymph Node, Mediastinal
- * Pituitary Gland
- * Seminal Vesicle
- * Stomach, Glandular
- * Trachea

MISSING

- * Mammary Gland

- * Parathyroid Gland

OBSERVATIONS

- * Heart
 - * Kidney
- Note: No reason seen for TGL 1.

Renal Tubule

Cardiomyopathy
Regeneration

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 201

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 202

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32242

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 203

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32243

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 204

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 205

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32245

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Spleen

* Stomach, Forestomach

OBSERVATIONS

* Liver

Hepatodiaphragmatic Nodule

[Hepatodiaphragmatic Nodule TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 206

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Spleen

* Stomach, Forestomach

OBSERVATIONS

* Liver

Hepatodiaphragmatic Nodule

[Hepatodiaphragmatic Nodule TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 207

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Stomach, Forestomach

OBSERVATIONS

* Spleen

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 208

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Spleen

* Stomach, Forestomach

OBSERVATIONS

* Liver

Hepatodiaphragmatic Nodule

[Hepatodiaphragmatic Nodule TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 209

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 210

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

OBSERVATIONS

* Stom Forestom

Note: TGL 1 is artifactual (tear in muscularis has allowed an outpouching of the inner layers through it).

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 401

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Liver

* Spleen

* Stomach, Forestomach

OBSERVATIONS

* Kidney

Renal Tubule

Regeneration

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 402

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32222

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 403

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32223

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

OBSERVATIONS

* Kidney

Note: No reason was seen for TGL 1.

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 404

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32224

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 405

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32225

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 406

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 407

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:38

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 408

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 409

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 410

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 601

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32201

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Spleen

* Stomach, Forestomach

OBSERVATIONS

* Liver

Kupffer Cell

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 602

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32202

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Spleen

* Stomach, Forestomach

OBSERVATIONS

* Liver

Kupffer Cell

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 603

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

OBSERVATIONS

Epididymis

Granuloma Sperm

Marked

[Granuloma Sperm TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 604

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Spleen

* Stomach, Forestomach

OBSERVATIONS

* Liver

Kupffer Cell

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 605

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 606

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Liver

* Spleen

* Stomach, Forestomach

OBSERVATIONS

* Kidney

Note: No reason was seen for TGL 1.

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 607

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Spleen

* Stomach, Forestomach

OBSERVATIONS

* Liver

Kupffer Cell

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 608

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow
* Stomach, Forestomach

* Kidney

Lung

* Spleen

OBSERVATIONS

* Liver
Kupffer Cell
Hepatodiaphragmatic Nodule
Pigmentation

Minimal

[Hepatodiaphragmatic Nodule TGLS = 1-11]

Lung

Note: No reason was seen for TGL 2.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 609

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Spleen

* Stomach, Forestomach

OBSERVATIONS

* Kidney

Renal Tubule

Regeneration

Minimal

* Liver

Kupffer Cell

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 610

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Kidney

* Spleen

* Stomach, Forestomach

OBSERVATIONS

* Liver

Kupffer Cell

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 801

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32181

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 802

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 803

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Stomach, Forestomach

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 804

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32184

OBSERVATIONS

* Bone Marrow

Hyperplasia

Mild

* Kidney

Renal Tubule

Pigmentation

Minimal

* Liver

Kupffer Cell

Pigmentation

Minimal

* Spleen

Accessory Spleen

Hematopoietic Cell Proliferation

Minimal

[Accessory Spleen TGLS = 1-11]

* Stomach, Forestomach

Epithelium

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 805

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Stomach, Forestomach

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 806

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Stomach, Forestomach

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 807

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Stomach, Forestomach

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 808

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Stomach, Forestomach

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 809

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Stomach, Forestomach

OBSERVATIONS

* Bone Marrow

Hyperplasia

Mild

* Kidney

Renal Tubule

Pigmentation

Minimal

Note: No reason was seen for TGL 1.

* Liver

Kupffer Cell

Pigmentation

Minimal

* Spleen

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 810

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Stomach, Forestomach

OBSERVATIONS

* Bone Marrow

Hyperplasia

Moderate

* Liver

Kupffer Cell

Pigmentation

Minimal

* Spleen

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1001

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO: 32161

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
Note: No reason seen for TGL 1.			
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Perl's iron stain on liver and spleen show the pigment to be blue which is compatible with a positive iron stain expected with hemosiderin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1002

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO: 32162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
Note: No reason is seen for TGL 1.			
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1003

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO: 32163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mesenteric
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1004

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO: 32164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1005

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO: 32165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
Note: No reason was seen for TGL 2.			
* Liver	Kupffer Cell	Hepatodiaphragmatic Nodule Pigmentation	Minimal
[Hepatodiaphragmatic Nodule TGLS = 1-4]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1006

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO: 32166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1007

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO: 32167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
Note: No reason seen for TGL 1.			
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1008

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO: 32168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
* Parathyroid Gland			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
Note: No reason seen for TGL 1.			
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1009

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO: 32169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1010

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO: 32170

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 101

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32151

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 102

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32152

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Intestine Large, Rectum

OBSERVATIONS

* Bone	Fracture	
Note: Probably not a fracture but vocabulary to chose from is inadequate-probably a malformation.		
[Fracture TGLS = 1-11]		
* Brain	Developmental Malformation	
	Inflammation	Minimal
	Mineralization	Mild
[Developmental Malformation TGLS = 2-1]		
* Heart	Cardiomyopathy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 103

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Bronchial	* Parathyroid Gland
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PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 104

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Larynx |
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Mammary Gland | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|---------|---|----------------------------|---------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | [Eosinophilic Focus TGLS = 2-4] | | |
| | [Hepatodiaphragmatic Nodule TGLS = 1-4] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | | Inflammation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 105

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Bone

* Bone Marrow

* Brain

* Clitoral Gland

* Heart

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Large, Rectum

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Islets, Pancreatic

* Kidney

* Larynx

* Liver

* Lung

* Lymph Node, Mandibular

* Lymph Node, Mediastinal

* Lymph Node, Mesenteric

* Mammary Gland

* Nose

* Ovary

* Pancreas

* Pituitary Gland

* Salivary Glands

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

* Uterus

MISSING

* Esophagus

* Lymph Node, Bronchial

* Parathyroid Gland

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 106

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
* Nose	Inflammation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 107

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32157

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 108

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32158

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 109

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32159

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 110

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 32160

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Bone

* Bone Marrow

* Brain

* Clitoral Gland

* Esophagus

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Large, Rectum

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Islets, Pancreatic

* Kidney

* Larynx

* Liver

* Lung

* Lymph Node, Bronchial

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

* Mammary Gland

* Nose

* Ovary

* Pancreas

* Parathyroid Gland

* Pituitary Gland

* Salivary Glands

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Heart

Cardiomyopathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 301

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Bone Marrow

* Kidney

* Liver

* Nose

* Salivary Glands

* Spleen

* Stomach, Forestomach

* Thymus

OBSERVATIONS

Ovary

Cyst

Mild

[Cyst TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 302

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Kidney	* Liver
* Salivary Glands	* Spleen	* Stomach, Forestomach	Stomach, Glandular
* Thymus			

OBSERVATIONS

* Nose	Inflammation	Minimal
Stom Gland		

Note: No lesions were seen to account for TGL 1.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32253

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Bone Marrow

* Kidney

* Liver

* Salivary Glands

* Spleen

* Stomach, Forestomach

* Thymus

OBSERVATIONS

* Nose

Inflammation

Minimal

* Stom Forestom

Note: TGL 1 is due to the artifact of a tear in the muscularis and outpouching of the inner stomach layers through it.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 304

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32254

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Bone Marrow

* Kidney

* Liver

* Nose

* Salivary Glands

* Spleen

* Stomach, Forestomach

* Thymus

OBSERVATIONS

Ovary

Cyst

Mild

[Cyst TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 305	TRT#: 4	SEX: Female	DAY ON TEST: 93
	DOSE: 31 PPM	DISP: Terminal Sacrifice	HISTO: 32255

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Bone	* Bone Marrow	* Kidney	* Liver
* Nose	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Thymus			

PRIMARY CAUSE OF DEATH	-
-------------------------------	---

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32256

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Bone Marrow

* Kidney

* Liver

* Nose

* Salivary Glands

* Spleen

* Stomach, Forestomach

* Thymus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 307

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Bone Marrow

* Kidney

* Liver

* Nose

* Salivary Glands

* Spleen

* Stomach, Forestomach

* Thymus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 308

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32258

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Bone Marrow

* Kidney

* Nose

* Salivary Glands

* Spleen

* Stomach, Forestomach

* Thymus

OBSERVATIONS

* Liver

Hepatodiaphragmatic Nodule

[Hepatodiaphragmatic Nodule TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 309

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32259

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Bone Marrow

* Kidney

* Liver

* Nose

* Salivary Glands

* Spleen

* Stomach, Forestomach

* Thymus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 310

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 31 PPM

DISP: Terminal Sacrifice

HISTO: 32260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Bone Marrow

* Kidney

* Liver

* Salivary Glands

* Spleen

* Stomach, Forestomach

* Thymus

OBSERVATIONS

* Nose

Inflammation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 501

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Kidney	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Thymus		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Kupffer Cell	Pigmentation	Minimal
[Hepatodiaphragmatic Nodule TGLS = 1-11]			
Lymph Node	Renal	Inflammation	Granulomatous, Mild
[Inflammation TGLS = 2-12]			
* Nose		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 502

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Kidney

* Nose

* Salivary Glands

* Spleen

* Stomach, Forestomach

* Thymus

OBSERVATIONS

* Bone Marrow

Hyperplasia

Minimal

* Liver

Kupffer Cell

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 503

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Kidney

* Salivary Glands

* Spleen

* Stomach, Forestomach

* Thymus

OBSERVATIONS

* Bone Marrow

Hyperplasia

Minimal

Inflammation

Granulomatous, Minimal

* Liver

Hepatodiaphragmatic Nodule

Kupffer Cell

Pigmentation

Minimal

[Hepatodiaphragmatic Nodule TGLS = 1-11]

* Nose

Inflammation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 504

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32234

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Bone Marrow

* Kidney

* Nose

* Salivary Glands

* Stomach, Forestomach

* Thymus

OBSERVATIONS

* Liver

Kupffer Cell

Pigmentation

Minimal

* Spleen

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 505

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Kidney

* Nose

* Salivary Glands

* Spleen

* Stomach, Forestomach

* Thymus

OBSERVATIONS

* Bone Marrow

Hyperplasia

Minimal

* Liver

Kupffer Cell

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 506

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32236

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Kidney

* Salivary Glands

* Spleen

* Thymus

OBSERVATIONS

* Bone Marrow

Hyperplasia

Minimal

Inflammation

Granulomatous, Mild

* Liver

Kupffer Cell

Pigmentation

Minimal

* Nose

Inflammation

Minimal

* Stomach, Forestomach

Inflammation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 507

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32237

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Kidney	* Nose	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Thymus	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Liver	Kupffer Cell	Hepatodiaphragmatic Nodule	
		Pigmentation	Minimal

[Hepatodiaphragmatic Nodule TGLS = 1-4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 508

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Kidney

* Nose

* Salivary Glands

* Spleen

* Stomach, Forestomach

* Thymus

OBSERVATIONS

* Bone Marrow

Hyperplasia

Minimal

* Liver

Kupffer Cell

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 509

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32239

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Kidney	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Thymus	

OBSERVATIONS

* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Kupffer Cell	Pigmentation	Minimal
[Basophilic Focus TGLS = 2-12]			
[Hepatodiaphragmatic Nodule TGLS = 1-11]			
* Nose		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 510

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 62.5 PPM

DISP: Terminal Sacrifice

HISTO: 32240

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Kidney

* Salivary Glands

* Spleen

* Stomach, Forestomach

* Thymus

OBSERVATIONS

* Bone Marrow

Hyperplasia

Minimal

Inflammation

Granulomatous, Minimal

* Liver

Kupffer Cell

Pigmentation

Minimal

* Nose

Inflammation

Minimal

* Stom Forestom

Note: TGL 1 is an artifact due to a tear in the muscularis and protrusion of the inner layers of the stomach through it.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 701

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32211

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Nose

* Salivary Glands

* Stomach, Forestomach

* Thymus

OBSERVATIONS

* Bone Marrow

Hyperplasia

Mild

* Kidney

Renal Tubule

Pigmentation

Minimal

* Liver

Kupffer Cell

Pigmentation

Minimal

* Spleen

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 702

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32212

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Nose

* Salivary Glands

* Stomach, Forestomach

* Thymus

OBSERVATIONS

* Bone Marrow

Hyperplasia

Mild

* Kidney

Renal Tubule

Pigmentation

Minimal

* Liver

Kupffer Cell

Pigmentation

Minimal

* Spleen

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 703

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Nose	* Salivary Glands	* Stomach, Forestomach
* Thymus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 704

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32214

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Salivary Glands

* Stomach, Forestomach

* Thymus

OBSERVATIONS

* Bone Marrow

Hyperplasia

Mild

* Kidney

Renal Tubule

Pigmentation

Minimal

* Liver

Kupffer Cell

Pigmentation

Minimal

* Nose

Inflammation

Mild

* Spleen

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 705

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32215

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Nose

* Salivary Glands

* Stomach, Forestomach

* Thymus

OBSERVATIONS

* Bone Marrow

Hyperplasia

Mild

* Kidney

Renal Tubule

Pigmentation

Minimal

* Liver

Kupffer Cell

Pigmentation

Minimal

* Spleen

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 706

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Salivary Glands

* Stomach, Forestomach

* Thymus

OBSERVATIONS

* Bone Marrow

Hyperplasia

Mild

* Kidney

Renal Tubule

Pigmentation

Minimal

* Liver

Kupffer Cell

Pigmentation

Minimal

* Nose

Inflammation

Minimal

* Spleen

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 707

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32217

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Nose

* Salivary Glands

* Stomach, Forestomach

* Thymus

OBSERVATIONS

* Bone Marrow

Hyperplasia

Mild

* Kidney

Renal Tubule

Pigmentation

Minimal

* Liver

Kupffer Cell

Pigmentation

Minimal

* Spleen

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 708

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32218

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Nose	* Salivary Glands	* Stomach, Forestomach
* Thymus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Hepatodiaphragmatic Nodule	
		Pigmentation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 1-11]		
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 709

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32219

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Nose

* Salivary Glands

* Stomach, Forestomach

* Thymus

OBSERVATIONS

* Bone Marrow

Hyperplasia

Mild

* Kidney

Renal Tubule

Pigmentation

Minimal

* Liver

Kupffer Cell

Pigmentation

Minimal

* Spleen

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 710

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO: 32220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Nose	* Salivary Glands	* Stomach, Forestomach
* Thymus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
Lymph Node	Renal	Inflammation	Granulomatous, Mild
[Inflammation TGLS = 1-11]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 901

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Nose		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 902

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Nose		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 903

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Nose		Inflammation	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 904

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Angiectasis	Mild
		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Nose		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 905

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 906

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32196

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 907

TRT#: 10

SEX: Female

DAY ON TEST: 50

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO: 32197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Urinary Bladder
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney	Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Larynx		Inflammation	Mild
		Metaplasia	Squamous, Mild
Note: Lesions probably related to plant material in laryngeal pouch.			
* Liver		Necrosis	Minimal
	Kupffer Cell	Pigmentation	Minimal
* Lung		Foreign Body	
		Inflammation	Granulomatous, Focal, Mild
* Nose		Inflammation	Mild
	Respirat Epith	Metaplasia	Squamous, Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 908

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32198

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Larynx		Metaplasia	Squamous, Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Nose		Inflammation	Minimal
* Ovary		Cyst	Mild
[Cyst TGLS = 1-7]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 909

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Nose		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 910

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO: 32200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Nose		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1101

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO: 32171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lung
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
	Tail, Vertebra	Inflammation	Mild
	Tail, Vertebra	Necrosis	Mild
Bone, Vertebra	Tail	Infarct	Moderate
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1102

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO: 32172

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
	Tail, Vertebra	Inflammation	Mild
	Tail, Vertebra	Necrosis	Mild
Bone, Vertebra	Tail	Infarct	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1103

TRT#: 12

SEX: Female

DAY ON TEST: 4

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO: 32173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Uterus			

MISSING

* Lymph Node, Bronchial

INSUFFICIENT TISSUE

* Urinary Bladder

OBSERVATIONS

* Bone Marrow	Tail, Vertebra	Necrosis	Mild
Bone, Vertebra	Tail	Infarct	Moderate
	Blood Vessel, Tail	Thrombosis	Mild
* Kidney	Renal Tubule	Degeneration	Mild
[Degeneration TGLS = 4-5]			
* Liver	Centrilobular	Degeneration	Minimal
		Necrosis	Mild
	Vein	Thrombosis	Minimal
[Degeneration TGLS = 2-4]			
[Necrosis TGLS = 1-4]			
* Nose		Inflammation	Minimal
* Pancreas		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Minimal
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1103

TRT#: 12

SEX: Female

DAY ON TEST: 4

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO: 32173

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1104

TRT#: 12

SEX: Female

DAY ON TEST: 4

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO: 32174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Adrenal Medulla	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Salivary Glands			

OBSERVATIONS

* Bone Marrow	Tail, Vertebra	Necrosis	Mild
Bone, Femur		Thrombosis	Minimal
Bone, Vertebra	Tail	Infarct	Moderate
	Blood Vessel, Tail	Thrombosis	Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Degeneration	Mild
	Renal Tubule	Pigmentation	Minimal
[Degeneration TGLS = 3-5]			
* Liver	Centrilobular	Degeneration	Minimal
		Necrosis	Minimal
[Degeneration TGLS = 2-4]			
* Lung		Thrombosis	Minimal
* Nose		Thrombosis	Mild
* Skin	Tail	Necrosis	Marked
[Necrosis TGLS = 1-11]			
* Thymus		Atrophy	Mild
Tooth, Incisor	Odontoblast	Degeneration	Mild
	Pulp	Thrombosis	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1104

TRT#: 12

DOSE: 500 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 4

HISTO: 32174

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1105

TRT#: 12

SEX: Female

DAY ON TEST: 4

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO: 32175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Adrenal Medulla	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow	Tail, Vertebra	Necrosis	Mild
Bone, Femur		Thrombosis	Minimal
Bone, Vertebra	Tail	Infarct	Moderate
	Blood Vessel, Tail	Thrombosis	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Mild
[Degeneration TGLS = 2-5]			
* Liver	Centrilobular	Degeneration	Moderate
		Necrosis	Mild
[Degeneration TGLS = 1-4]	Vein	Thrombosis	Minimal
* Lung		Thrombosis	Minimal
* Nose		Thrombosis	Mild
* Salivary Glands		Necrosis	Mild
* Spleen		Atrophy	Mild
* Stomach, Forestomach		Inflammation	Mild
		Necrosis	Minimal
		Ulcer	Mild
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1105

TRT#: 12

SEX: Female

DAY ON TEST: 4

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO: 32175

ORGAN AND ACCOUNTABLE SITE STATUS

Tooth, Incisor

Odontoblast

Degeneration

Mild

Pulp

Thrombosis

Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1106

TRT#: 12

SEX: Female

DAY ON TEST: 32

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO: 32176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Intestine Large, Rectum	* Parathyroid Gland
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
	Tail, Vertebra	Necrosis	Mild
Bone, Vertebra	Tail	Infarct	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Hepatodiaphragmatic Nodule	
		Pigmentation	Minimal
[Hepatodiaphragmatic Nodule TGLS = 1-11]			
* Lung			
Note: Significant lesions were not observed to account for TGL 2.			
* Nose		Inflammation	Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
Tooth, Incisor	Odontoblast	Degeneration	Mild
	Pulp	Thrombosis	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1107

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO: 32177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
	Tail, Vertebra	Necrosis	Mild
Bone, Vertebra	Tail	Infarct	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1108

TRT#: 12

SEX: Female

DAY ON TEST: 4

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO: 32178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Pituitary Gland
* Skin	* Spleen	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Bone Marrow	Tail, Vertebra	Necrosis	Mild
Bone, Vertebra	Tail	Infarct	Moderate
	Blood Vessel, Tail	Thrombosis	Mild
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Mild
* Kidney	Renal Tubule	Degeneration	Mild
[Degeneration TGLS = 2-5]			
* Liver	Centrilobular	Degeneration	Moderate
		Necrosis	Moderate
	Vein	Thrombosis	Minimal
[Degeneration TGLS = 1-4]			
* Lung		Thrombosis	Minimal
* Nose		Thrombosis	Mild
* Salivary Glands		Necrosis	Mild
* Stomach, Forestomach		Inflammation	Mild
		Necrosis	Mild
		Ulcer	Mild
* Thymus		Atrophy	Marked
Tooth, Incisor	Odontoblast	Degeneration	Mild
	Pulp	Thrombosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1108

TRT#: 12

SEX: Female

DAY ON TEST: 4

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO: 32178

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1109

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO: 32179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
	Tail, Vertebra	Necrosis	Mild
Bone, Vertebra	Tail	Infarct	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Kupffer Cell	Pigmentation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 6-11]		
* Nose		Inflammation	Mild
* Ovary		Cyst	Minimal
	[Cyst TGLS = 3-7]		
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05197-09

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Butoxyethanol (ethylene glycol monobutyl ether)
CAS Number: 111-76-2

Date Report Requested: 10/22/2014

Time Report Requested: 19:22:39

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1110

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO: 32180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
	Tail, Vertebra	Necrosis	Mild
Bone, Vertebra	Tail	Infarct	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Kupffer Cell	Pigmentation	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

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** END OF REPORT **

* PROTOCOL REQUIRED TISSUE