

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

C Number:	C88045
Lock Date:	11/13/1996
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: 88045-03
Test Type: 90-DAY
Route: GAVAGE
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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 1	TRT#: 1 DOSE: 0 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603581
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* 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	

OBSERVATIONS

* Heart		Inflammation	Chronic Active, Moderate
* Intestine Large, Rectum		Parasite Metazoan	
* Liver	Centrilobular	Vacuolization Cytoplasmic	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 2	TRT#: 1 DOSE: 0 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603582
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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 | * 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 | |

OBSERVATIONS

- | | | | |
|----------|---------------|----------------------------------|--------------------------------|
| * Heart | | Inflammation | Chronic Active, Minimal |
| * Kidney | | Inflammation | Chronic Active, Focal, Minimal |
| * Liver | Centrilobular | Vacuolization Cytoplasmic | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 3	TRT#: 1 DOSE: 0 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603583
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* 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

MISSING

* Mammary Gland

OBSERVATIONS

* Heart		Inflammation	Chronic Active, Mild
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
	Centrilobular	Vacuolization Cytoplasmic	Minimal
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 4	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Liver
* Lung	* 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	

OBSERVATIONS

* Heart	Inflammation	Chronic Active, Minimal
* Kidney	Nephropathy	Minimal
* Lymph Node, Mandibular	Hyperplasia	Plasma Cell, Minimal
* Spleen	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 5	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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 |
| * 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 | |

OBSERVATIONS

- | | | | |
|----------|---|----------------------------------|-------------------------|
| * Heart | | Inflammation | Chronic Active, Mild |
| * Liver | | Hepatodiaphragmatic Nodule | |
| | Centrilobular | Vacuolization Cytoplasmic | Minimal |
| | [Hepatodiaphragmatic Nodule TGLS = 1-6] | | |
| * Lung | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Liver
* 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	

OBSERVATIONS

* Heart	Inflammation	Chronic Active, Mild
* Kidney	Nephropathy	Minimal
* Lung	Hemorrhage	Minimal
* Spleen	Hematopoietic Cell Proliferation	Minimal
	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9903587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Vacuolization Cytoplasmic	Minimal
* Lung		Hemorrhage	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 8	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lung
* Lymph Node, Mandibular	* 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		

OBSERVATIONS

* Heart		Inflammation	Chronic Active, Mild
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
	Centrilobular	Vacuolization Cytoplasmic	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 9	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* 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	

OBSERVATIONS

* Heart		Inflammation	Chronic Active, Minimal
* Kidney		Accumulation, Hyaline Droplet	Mild
		Nephropathy	Minimal
* Liver	Centrilobular	Vacuolization Cytoplasmic	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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 | * Liver |
| * 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 | |

OBSERVATIONS

- | | | |
|----------|----------------------------------|-------------------------|
| * Heart | Hemorrhage | Mild |
| | Inflammation | Chronic Active, Mild |
| * Kidney | Accumulation, Hyaline Droplet | Minimal |
| * Lung | Inflammation | Chronic Active, Minimal |
| * Spleen | Hematopoietic Cell Proliferation | Minimal |
| | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 11

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Liver

* Nose

* Thymus

OBSERVATIONS

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 12	TRT#: 3 DOSE: 25 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603592
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Nose	* Thymus
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OBSERVATIONS

* Spleen	Hematopoietic Cell Proliferation Pigmentation	Minimal Minimal
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PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 13	TRT#: 3 DOSE: 25 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603593
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Nose	* Thymus
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OBSERVATIONS

* Liver [Hepatodiaphragmatic Nodule TGLS = 1-6]	Hepatodiaphragmatic Nodule	
* Spleen	Hematopoietic Cell Proliferation Pigmentation	Minimal Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 14	TRT#: 3 DOSE: 25 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603594
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Nose	* Thymus
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OBSERVATIONS

* Liver	Hepatodiaphragmatic Nodule Inflammation	Chronic Active, Minimal
[Hepatodiaphragmatic Nodule TGLS = 1-6]		
* Spleen	Hematopoietic Cell Proliferation Pigmentation	Mild Minimal

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 15	TRT#: 3 DOSE: 25 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603595
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Nose	* Thymus
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OBSERVATIONS

* Liver	Centrilobular	Inflammation Vacuolization Cytoplasmic Hematopoietic Cell Proliferation Pigmentation	Chronic Active, Minimal Mild Mild Minimal
* Spleen			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 16	TRT#: 3 DOSE: 25 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603596
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Nose	* Thymus
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OBSERVATIONS

* Spleen	Hematopoietic Cell Proliferation Pigmentation	Mild Mild
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PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 17	TRT#: 3 DOSE: 25 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603597
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Nose	* Thymus
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OBSERVATIONS

* Spleen	Hematopoietic Cell Proliferation Pigmentation	Minimal Minimal
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PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 19	TRT#: 3 DOSE: 25 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603599
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Nose	* Thymus
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OBSERVATIONS

Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 20	TRT#: 3 DOSE: 25 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603600
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Nose	* Thymus
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OBSERVATIONS

* Spleen	Hematopoietic Cell Proliferation Pigmentation	Mild Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 21	TRT#: 5 DOSE: 50 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603601
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Thymus
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OBSERVATIONS

Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
Testes		Degeneration	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 22	TRT#: 5 DOSE: 50 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603602
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Thymus
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OBSERVATIONS

* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 23	TRT#: 5 DOSE: 50 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603603
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Thymus
---------------	---------	----------

OBSERVATIONS

Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Mild
* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 25

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 50 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Liver

* Thymus

OBSERVATIONS

* Nose

Olfactory Epi

Degeneration

Mild

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 26	TRT#: 5 DOSE: 50 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603606
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Thymus
---------------	---------	----------

OBSERVATIONS

Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Mild
* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Thymus			

Note: TGL 1-4, No corresponding lesion (NCL) was observed microscopically for the gross observation.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 27	TRT#: 5 DOSE: 50 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603607
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Thymus
---------------	---------	----------

OBSERVATIONS

* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 28	TRT#: 5 DOSE: 50 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603608
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Thymus
---------------	---------	----------

OBSERVATIONS

* Nose	Olfactory Epi	Degeneration	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 29

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 50 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Liver

* Thymus

OBSERVATIONS

* Nose

Olfactory Epi

Degeneration

Mild

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 30	TRT#: 5 DOSE: 50 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603610
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Thymus
---------------	---------	----------

OBSERVATIONS

* Nose	Olfactory Epi	Degeneration	Minimal
	Respirat Epith	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 31	TRT#: 7	SEX: Male	DAY ON TEST: 93
	DOSE: 100 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Thymus
---------------	---------	----------

OBSERVATIONS

Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 33	TRT#: 7	SEX: Male	DAY ON TEST: 93
	DOSE: 100 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603613

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Thymus
---------------	----------

OBSERVATIONS

* Liver		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 35

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 100 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603615

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Liver

* Thymus

OBSERVATIONS

* Nose

Olfactory Epi

Degeneration

Moderate

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 36	TRT#: 7	SEX: Male	DAY ON TEST: 93
	DOSE: 100 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603616

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Thymus
---------------	---------	----------

OBSERVATIONS

* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 37

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 100 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603617

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Liver

* Thymus

OBSERVATIONS

* Nose

Olfactory Epi

Degeneration

Moderate

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 38	TRT#: 7	SEX: Male	DAY ON TEST: 93
	DOSE: 100 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603618

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow * Thymus

OBSERVATIONS

* Liver		Inflammation	Chronic Active, Minimal
Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
Testes		Degeneration	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:21
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 39	TRT#: 7	SEX: Male	DAY ON TEST: 93
	DOSE: 100 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603619

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	* Bone Marrow	* Liver	* Thymus
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OBSERVATIONS

Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Mild
* Nose	Olfactory Epi	Degeneration	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 41

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Inflammation	Chronic Active, Minimal
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Minimal
* Nose	Olfactory Epi	Degeneration	Marked
	Respirat Epith	Degeneration	Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 42

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603622

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
	Respirat Epith	Degeneration	Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thymus		Necrosis	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 43

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603623

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|----------------|----------------------------------|----------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Lymph Node, Mandibular | | Hyperplasia | Plasma Cell, Minimal |
| * Nose | Olfactory Epi | Degeneration | Moderate |
| | Respirat Epith | Degeneration | Mild |
| | Respirat Epith | Metaplasia | Squamous, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 44

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Inflammation	Chronic Active, Minimal
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thymus		Necrosis	Minimal
* Thyroid Gland		Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 45

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603625

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---------------------------|----------------|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Inflammation | Chronic Active, Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Lymph Node, Mandibular | | Hyperplasia | Plasma Cell, Mild |
| * Nose | Olfactory Epi | Degeneration | Marked |
| | Respirat Epith | Metaplasia | Squamous, Moderate |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 46

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603626

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Inflammation	Chronic Active, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Marked
	Respirat Epith	Metaplasia	Squamous, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 47

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603627

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
	Respirat Epith	Degeneration	Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Capsule	Inflammation	Chronic Active, Mild
		Pigmentation	Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 48

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603628

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Inflammation	Chronic Active, Minimal
* Liver		Necrosis	Mild
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Minimal
* Nose	Olfactory Epi	Degeneration	Marked
	Respirat Epith	Degeneration	Mild
	Respirat Epith	Metaplasia	Squamous, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 49

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603629

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---------------|---------------|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Minimal |
| * Heart | | Inflammation | Chronic Active, Minimal |
| * Nose | Olfactory Epi | Degeneration | Moderate |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 50

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603630

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Inflammation	Chronic Active, Minimal
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Minimal
* Nose	Olfactory Epi	Degeneration	Marked
	Respirat Epith	Degeneration	Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 51

TRT#: 11

SEX: Male

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Natural Death

HISTO: 9603631

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum

OBSERVATIONS

* Epididymis		Hypospermia	Marked
Note: Sperm were absent from epididymis.			
* Liver		Necrosis	Moderate
Note: Death due to cyanide toxicity for this and other animals. Liver necrosis coded as PCOD since this was the most severe histologic manifestation of anoxia.			
* Lung		Hemorrhage	Mild
* Lymph Node, Mandibular		Atrophy	Mild
* Lymph Node, Mesenteric		Atrophy	Mild
* Nose	Olfactory Epi	Degeneration	Marked
	Respirat Epith	Degeneration	Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen	Lymphatic	Depletion Cellular	Mild
		Hematopoietic Cell Proliferation	Minimal
* Testes		Hypoplasia	Mild
Note: Very few elongated spermatids were present in tubules.			
* Thymus		Necrosis	Minimal

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 52

TRT#: 11

SEX: Male

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Natural Death

HISTO: 9603632

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis		Hypospermia	Marked
Note: Sperm were absent from epididymis.			
* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Necrosis	Marked
[Hepatodiaphragmatic Nodule TGLS = 1-7]			
* Lung		Inflammation	Chronic Active, Minimal
* Lymph Node, Mandibular		Atrophy	Minimal
* Lymph Node, Mesenteric		Atrophy	Minimal
* Nose	Olfactory Epi	Degeneration	Marked
* Seminal Vesicle		Atrophy	Mild
* Spleen	Lymphatic	Depletion Cellular	Minimal
		Hematopoietic Cell Proliferation	Mild
* Testes		Hypoplasia	Mild
Note: There were decreased numbers of elongated spermatids in the tubules.			
* Thymus		Hemorrhage	Mild
		Necrosis	Mild

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 53

TRT#: 11

SEX: Male

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Natural Death

HISTO: 9603633

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

- * Mammary Gland

OBSERVATIONS

* Epididymis		Hypospermia	Marked
Note: Sperm were absent from epididymis.			
* Liver		Necrosis	Marked
* Lymph Node, Mandibular		Atrophy	Minimal
* Lymph Node, Mesenteric		Atrophy	Minimal
* Nose	Olfactory Epi	Degeneration	Marked
	Respirat Epith	Degeneration	Minimal
* Seminal Vesicle		Atrophy	Moderate
* Spleen	Lymphatic	Depletion Cellular	Mild
		Hematopoietic Cell Proliferation	Mild
* Testes		Hypoplasia	Mild
* Thymus		Necrosis	Mild

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 54

TRT#: 11

SEX: Male

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Moribund Sacrifice

HISTO: 9603634

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis Note: Sperm were absent.		Hypospermia	Marked
* Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Mild
* Lymph Node, Mesenteric		Atrophy	Mild
* Nose	Olfactory Epi	Degeneration	Marked
* Seminal Vesicle		Atrophy	Moderate
* Spleen	Lymphatic	Depletion Cellular	Mild
		Hematopoietic Cell Proliferation	Mild
* Testes Note: Elongated spermatids were few in number. The testes were immature.		Hypoplasia	Mild
* Thymus		Necrosis	Mild

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 55

TRT#: 11

SEX: Male

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Natural Death

HISTO: 5603635

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis Note: Sperm absent.		Hypospermia	Marked
* Liver		Necrosis	Marked
* Lung [Hemorrhage TGLS = 2-5]		Hemorrhage	Mild
* Lymph Node, Mandibular		Atrophy	Minimal
* Lymph Node, Mesenteric		Atrophy	Minimal
* Nose	Olfactory Epi Respirat Epith	Degeneration Degeneration	Marked Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen	Lymphatic	Depletion Cellular Hematopoietic Cell Proliferation	Mild Minimal
* Stom Forestom Note: TGL = 1-NCL			
* Stom Gland Note: TGL= 3-NCL			
* Testes Note: Elongated spermatids absent. Immature testis.		Hypoplasia	Mild
* Thymus		Necrosis	Mild

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 56

TRT#: 11

SEX: Male

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Natural Death

HISTO: 9603636

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis Note: Sperm were absent from the epididymis.		Hypospermia	Marked
* Liver		Necrosis	Marked
* Lymph Node, Mandibular		Atrophy	Minimal
* Nose	Olfactory Epi	Degeneration	Marked
	Respirat Epith	Degeneration	Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen	Lymphatic	Depletion Cellular	Mild
		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach [Hemorrhage TGLS = 1-12]		Hemorrhage	Mild
* Stomach, Glandular [Erosion TGLS = 2-6]		Erosion	Minimal
* Testes Note: There were very few spermatids in tubules. The testicle was immature.		Hypoplasia	Moderate
* Thymus		Necrosis	Mild

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 57

TRT#: 11

SEX: Male

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Natural Death

HISTO: 9603637

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland	* Preputial Gland
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AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Epididymis Note: Sperm were absent.		Hypospermia	Marked
* Liver		Necrosis	Marked
* Lymph Node, Mandibular		Atrophy	Minimal
* Nose	Olfactory Epi	Degeneration	Marked
	Respirat Epith	Degeneration	Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen	Lymphatic	Depletion Cellular	Mild
		Hematopoietic Cell Proliferation	Mild
* Testes Note: Elongated spermatids were few. The testis was immature.		Hypoplasia	Moderate
* Thymus		Necrosis	Mild

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 58

TRT#: 11

SEX: Male

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Natural Death

HISTO: 9603638

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Epididymis		Hypospermia	Marked
Note: Sperm were absent.			
* Liver		Necrosis	Marked
* Nose	Olfactory Epi	Degeneration	Marked
	Respirat Epith	Degeneration	Moderate
* Seminal Vesicle		Atrophy	Mild
* Spleen	Lymphatic	Depletion Cellular	Mild
		Hematopoietic Cell Proliferation	Minimal
* Testes		Hypoplasia	Moderate
Note: The testes contained very few elongated spermatids. The testes were immature.			
* Thymus		Necrosis	Mild

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 59

TRT#: 11

SEX: Male

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Natural Death

HISTO: 9603639

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Intestine Small, Jejunum

OBSERVATIONS

* Epididymis		Hypospermia	Marked
Note: Sperm were absent.			
* Liver		Necrosis	Marked
* Nose	Olfactory Epi	Degeneration	Marked
	Respirat Epith	Degeneration	Moderate
* Seminal Vesicle		Atrophy	Moderate
* Spleen	Lymphatic	Depletion Cellular	Minimal
		Hematopoietic Cell Proliferation	Minimal
* Testes		Hypoplasia	Moderate
Note: Very few elongated sperm were present. The testes were immature.			
* Thymus		Hemorrhage	Mild
		Necrosis	Mild

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 60

TRT#: 11

SEX: Male

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Natural Death

HISTO: 9603640

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Stomach, Forestomach	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis Note: Sperm were absent.		Hypospermia	Marked
* Liver		Necrosis	Marked
* Lymph Node, Mandibular		Atrophy	Mild
* Nose	Olfactory Epi	Degeneration	Marked
	Respirat Epith	Degeneration	Minimal
* Seminal Vesicle		Atrophy	Moderate
* Spleen	Lymphatic	Depletion Cellular	Minimal
		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular [Erosion TGLS = 1-6]		Erosion	Minimal
* Testes Note: Elongated spermatids were sparce. The testes were immature.			
* Thymus		Necrosis	Mild

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 61	TRT#: 2	SEX: Female	DAY ON TEST: 93
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603641

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Liver
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Heart	Inflammation	Chronic Active, Minimal
* Kidney	Mineralization	Mild
	Nephropathy	Minimal
* Lymph Node, Mesenteric	Hyperplasia	Histiocytic, Minimal
* Spleen	Hematopoietic Cell Proliferation	Minimal
	Pigmentation	Minimal
* Thymus	Hemorrhage	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 62

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603642

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Intestine Small, Duodenum
- * Lung
- * Ovary
- * Salivary Glands
- * Thymus
- * Uterus

- * Adrenal Medulla
- * Brain
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pancreas
- * Skin
- * Thyroid Gland

- * Blood Vessel
- * Clitoral Gland
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Parathyroid Gland
- * Stomach, Forestomach
- * Trachea

- * Bone
- * Esophagus
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Nose
- * Pituitary Gland
- * Stomach, Glandular
- * Urinary Bladder

OBSERVATIONS

- * Kidney
 - * Liver
- [Hepatodiaphragmatic Nodule TGLS = 1-6]
- * Lymph Node, Mesenteric
 - * Spleen

- Mineralization
- Hepatodiaphragmatic Nodule
- Inflammation
- Hyperplasia
- Hematopoietic Cell Proliferation
- Pigmentation

- Minimal
- Chronic Active, Mild
- Histiocytic, Minimal
- Minimal
- Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 63

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603643

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* 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		

OBSERVATIONS

* Kidney	Mineralization	Minimal
* Liver	Inflammation	Chronic Active, Minimal
* Spleen	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 64

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603644

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Intestine Small, Duodenum
- * Lung
- * Nose
- * Pituitary Gland
- * Stomach, Glandular
- * Urinary Bladder

- * Adrenal Medulla
- * Brain
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Ovary
- * Salivary Glands
- * Thymus
- * Uterus

- * Blood Vessel
- * Clitoral Gland
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Pancreas
- * Skin
- * Thyroid Gland

- * Bone
- * Esophagus
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Parathyroid Gland
- * Stomach, Forestomach
- * Trachea

OBSERVATIONS

- | | | |
|----------|----------------------------------|-------------------------|
| * Kidney | Mineralization | Minimal |
| * Liver | Inflammation | Chronic Active, Minimal |
| * Spleen | Hematopoietic Cell Proliferation | Minimal |
| | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 65	TRT#: 2	SEX: Female	DAY ON TEST: 93
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603645

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* 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		

OBSERVATIONS

* Kidney	Mineralization	Minimal
* Liver	Inflammation	Chronic Active, Minimal
* Spleen	Hematopoietic Cell Proliferation	Minimal
	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 66

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603646

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* 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	

OBSERVATIONS

* Liver	Inflammation	Chronic Active, Minimal
* Spleen	Hematopoietic Cell Proliferation	Minimal
	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 67

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603647

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Lung	* 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

* Heart	Inflammation	Chronic Active, Minimal
* Liver	Inflammation	Chronic Active, Minimal
* Lymph Node, Mandibular	Hyperplasia	Histiocytic, Minimal
* Spleen	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 68	TRT#: 2	SEX: Female	DAY ON TEST: 93
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603648

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* 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	

OBSERVATIONS

* Liver	Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-6l]		
* Spleen	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 69

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603649

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Lung
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Inflammation	Chronic Active, Minimal
* Kidney	Mineralization	Minimal
* Liver	Hepatodiaphragmatic Nodule	
	Inflammation	Chronic Active, Minimal
[Hepatodiaphragmatic Nodule TGLS = 1-7]		
* Lymph Node, Mandibular	Hyperplasia	Histiocytic, Minimal
* Lymph Node, Mesenteric	Hyperplasia	Histiocytic, Minimal
* Spleen	Hematopoietic Cell Proliferation	Minimal
	Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 70

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603650

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Heart	Inflammation	Chronic Active, Minimal
* Kidney	Mineralization	Minimal
* Liver	Inflammation	Chronic Active, Minimal
* Lymph Node, Mesenteric	Hyperplasia	Histiocytic, Minimal
* Spleen	Hematopoietic Cell Proliferation	Minimal
	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 71

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603651

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Thymus

OBSERVATIONS

* Liver

Lymph Node, Mesenteric

* Nose

Olfactory Epi

* Spleen

Inflammation

Hyperplasia

Degeneration

Hematopoietic Cell Proliferation

Pigmentation

Chronic Active, Minimal

Histiocytic, Mild

Mild

Minimal

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 72

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603652

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Thymus

OBSERVATIONS

* Liver

Inflammation

Chronic Active, Minimal

* Nose

Inflammation

Chronic Active, Minimal

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 73	TRT#: 4 DOSE: 25 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603653
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Thymus
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OBSERVATIONS

Lymph Node, Mesenteric	Hyperplasia	Histiocytic, Minimal
* Nose	Inflammation	Chronic Active, Mild
* Spleen	Hematopoietic Cell Proliferation	Minimal
	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 74	TRT#: 4 DOSE: 25 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603654
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Thymus
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OBSERVATIONS

* Liver		Inflammation	Chronic Active, Mild
Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Mild
* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 75	TRT#: 4 DOSE: 25 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603655
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Nose	* Thymus
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OBSERVATIONS

* Liver	Hepatodiaphragmatic Nodule Inflammation	Chronic Active, Mild
[Hepatodiaphragmatic Nodule TGLS = 1-6]		
* Spleen	Hematopoietic Cell Proliferation Pigmentation	Minimal Minimal

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 76	TRT#: 4 DOSE: 25 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603656
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL * Bone Marrow	* Nose	* Thymus
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OBSERVATIONS * Liver	Inflammation	Chronic Active, Mild
* Spleen	Hematopoietic Cell Proliferation	Minimal
	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 78	TRT#: 4 DOSE: 25 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603658
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Nose	* Thymus
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OBSERVATIONS

* Spleen	Hematopoietic Cell Proliferation Pigmentation	Minimal Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 79	TRT#: 4	SEX: Female	DAY ON TEST: 93
	DOSE: 25 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603659

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Nose	* Thymus
---------------	--------	----------

OBSERVATIONS

* Liver	Inflammation	Chronic Active, Minimal
Lymph Node, Mesenteric	Hyperplasia	Histiocytic, Mild
* Spleen	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 80	TRT#: 4 DOSE: 25 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603660
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Thymus
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OBSERVATIONS

* Liver		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 81	TRT#: 6 DOSE: 50 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603661
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Thymus
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OBSERVATIONS

* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 82	TRT#: 6 DOSE: 50 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603662
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Thymus
---------------	---------	----------

OBSERVATIONS

Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 83	TRT#: 6 DOSE: 50 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603663
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Thymus
---------------	---------	----------

OBSERVATIONS

* Nose	Olfactory Epi	Degeneration	Moderate
* Spleen		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 84	TRT#: 6 DOSE: 50 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603664
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Thymus
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OBSERVATIONS

* Liver		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 86

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 50 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603666

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

* Thymus

OBSERVATIONS

* Liver

Inflammation

Chronic Active, Minimal

* Nose

Olfactory Epi

Degeneration

Moderate

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 88	TRT#: 6 DOSE: 50 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603668
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Thymus
---------------	----------

OBSERVATIONS

* Liver		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
* Spleen		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 89	TRT#: 6 DOSE: 50 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 9603669
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Thymus
---------------	----------

OBSERVATIONS

* Liver		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 91	TRT#: 8	SEX: Female	DAY ON TEST: 93
	DOSE: 100 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603671

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Thymus
---------------	----------

OBSERVATIONS

* Liver		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 93	TRT#: 8	SEX: Female	DAY ON TEST: 93
	DOSE: 100 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603673

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Liver * Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 94	TRT#: 8	SEX: Female	DAY ON TEST: 93
	DOSE: 100 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603674

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Liver		Inflammation	Chronic Active, Minimal
Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Mild
* Nose	Olfactory Epi	Degeneration	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 96	TRT#: 8	SEX: Female	DAY ON TEST: 93
	DOSE: 100 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603676

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	* Bone Marrow
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OBSERVATIONS

* Liver		Inflammation	Chronic Active, Minimal
Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 100	TRT#: 8	SEX: Female	DAY ON TEST: 93
	DOSE: 100 MG/KG	DISP: Terminal Sacrifice	HISTO: 9603680

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Liver	* Thymus
---------------	---------	----------

OBSERVATIONS

Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Mild
* Nose	Olfactory Epi	Degeneration	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 101

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603681

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Uterus	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Mild
* Nose	Olfactory Epi	Degeneration	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thyroid Gland		Infiltration Cellular	Lymphocyte, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 102

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603682

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Kidney	* Lung
* 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

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Inflammation	Chronic Active, Minimal
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-6]			
* Nose	Olfactory Epi	Degeneration	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 103

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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 | * Kidney |
| * Liver | * Lung | * 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 | Mild |
| * Lymph Node, Mandibular | | Hyperplasia | Histiocytic, Mild |
| * Nose | Olfactory Epi | Degeneration | Moderate |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 104

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603684

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Mineralization	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 105

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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, 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 | Mild |
| * Heart | | Inflammation | Chronic Active, Minimal |
| * Kidney | | Mineralization | Minimal |
| * Liver | | Inflammation | Chronic Active, Minimal |
| * Lymph Node, Mandibular | | Hyperplasia | Plasma Cell, Mild |
| * Nose | Olfactory Epi | Degeneration | Moderate |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 106

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603686

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Liver
* Lung	* 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	Mild
* Kidney		Mineralization	Minimal
* Lymph Node, Mandibular		Hyperplasia	Histiocytic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 107

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Inflammation	Chronic Active, Minimal
* Kidney		Mineralization	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 108

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: .

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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 | * Lung |
| * Lymph Node, Mandibular | * Mammary Gland | * Ovary | * Pancreas |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|--------------------------|---------------|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Mineralization | Minimal |
| * Liver | | Inflammation | Chronic Active, Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Minimal |
| * Nose | Olfactory Epi | Degeneration | Moderate |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 109

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Liver
* 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			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 110

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 200 MG/KG

DISP: Terminal Sacrifice

HISTO: 9603690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* 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		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Inflammation	Chronic Active, Minimal
* Kidney		Mineralization	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 111

TRT#: 12

SEX: Female

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Natural Death

HISTO: 9603691

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- * Esophagus

OBSERVATIONS

- | | | | |
|--------------------------|---------------|----------------------------------|----------|
| * Liver | | Necrosis | Moderate |
| * Lymph Node, Mandibular | | Atrophy | Mild |
| * Nose | Olfactory Epi | Degeneration | Marked |
| * Spleen | Lymphatic | Depletion Cellular | Mild |
| | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Necrosis | Mild |

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 112

TRT#: 12

SEX: Female

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Natural Death

HISTO: 9603692

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lung	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Liver		Necrosis	Moderate
* Lymph Node, Mandibular		Atrophy	Mild
* Lymph Node, Mesenteric		Atrophy	Mild
* Nose	Olfactory Epi	Degeneration	Marked
* Spleen	Lymphatic	Depletion Cellular	Minimal
		Hematopoietic Cell Proliferation	Minimal
* Thymus		Necrosis	Mild

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 113	TRT#: 12	SEX: Female	DAY ON TEST: 2
	DOSE: 600 MG/KG	DISP: Natural Death	HISTO: 9603693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Liver		Necrosis	Mild
* Nose	Olfactory Epi	Degeneration	Marked
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Necrosis	Moderate

PRIMARY CAUSE OF DEATH - Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 114

TRT#: 12

SEX: Female

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Natural Death

HISTO: 9603694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Liver		Necrosis	Moderate
* Lymph Node, Mandibular		Atrophy	Moderate
* Nose	Olfactory Epi	Degeneration	Marked
* Spleen	Lymphatic	Depletion Cellular	Mild
		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular		Erosion	Minimal
[Erosion TGLS = 1-6]			
* Thymus		Necrosis	Moderate

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Butanal oxime
CAS Number: 110-69-0

Date Report Requested: 10/22/2014
Time Report Requested: 19:38:22
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 115

TRT#: 12

SEX: Female

DAY ON TEST: 3

DOSE: 600 MG/KG

DISP: Moribund Sacrifice

HISTO: 9603695

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Liver		Necrosis	Moderate
* Lymph Node, Mesenteric		Atrophy	Moderate
* Nose	Olfactory Epi	Degeneration	Marked
* Spleen	Lymphatic	Depletion Cellular	Mild
* Thymus		Necrosis	Moderate

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 116

TRT#: 12

SEX: Female

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Natural Death

HISTO: 9603696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lung	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Liver		Hepatodiaphragmatic Nodule Necrosis	Moderate
	[Hepatodiaphragmatic Nodule TGLS = 1-6]		
* Lymph Node, Mandibular		Atrophy	Minimal
* Lymph Node, Mesenteric		Atrophy	Mild
* Nose	Olfactory Epi	Degeneration	Marked
* Spleen	Lymphatic	Depletion Cellular	Minimal
		Hematopoietic Cell Proliferation	Minimal
* Thymus		Necrosis	Moderate

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 117

TRT#: 12

SEX: Female

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Natural Death

HISTO: 9603697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lung	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Liver		Necrosis	Marked
* Lymph Node, Mandibular		Atrophy	Mild
* Lymph Node, Mesenteric		Atrophy	Mild
* Nose	Olfactory Epi	Degeneration	Marked
* Spleen	Lymphatic	Depletion Cellular	Mild
		Hematopoietic Cell Proliferation	Minimal
* Thymus		Necrosis	Mild

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 118

TRT#: 12

SEX: Female

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Natural Death

HISTO: 9603698

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lung	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Liver		Necrosis	Mild
* Lymph Node, Mandibular		Atrophy	Mild
* Lymph Node, Mesenteric		Atrophy	Mild
* Nose	Olfactory Epi	Degeneration	Marked
* Spleen	Lymphatic	Depletion Cellular	Mild
		Hematopoietic Cell Proliferation	Minimal
* Thymus		Necrosis	Mild

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 119

TRT#: 12

SEX: Female

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Natural Death

HISTO: 9603699

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Lung | * Mammary Gland | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- * Intestine Large, Rectum

OBSERVATIONS

- | | | | |
|--------------------------|---------------|----------------------------------|---------|
| * Liver | | Necrosis | Marked |
| * Lymph Node, Mandibular | | Atrophy | Mild |
| * Lymph Node, Mesenteric | | Atrophy | Mild |
| * Nose | Olfactory Epi | Degeneration | Marked |
| * Spleen | Lymphatic | Depletion Cellular | Mild |
| | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Necrosis | Mild |

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88045-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Butanal oxime

CAS Number: 110-69-0

Date Report Requested: 10/22/2014

Time Report Requested: 19:38:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 120

TRT#: 12

SEX: Female

DAY ON TEST: 2

DOSE: 600 MG/KG

DISP: Natural Death

HISTO: 9603700

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lung	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Liver		Necrosis	Marked
* Lymph Node, Mandibular		Atrophy	Moderate
* Lymph Node, Mesenteric		Atrophy	Mild
* Nose	Olfactory Epi	Degeneration	Marked
* Spleen	Lymphatic	Depletion Cellular	Mild
		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular		Congestion	Minimal
[Congestion TGLS = 1-6]			
* Thymus		Necrosis	Moderate

PRIMARY CAUSE OF DEATH

- Liver Necrosis

** END OF REPORT **

* PROTOCOL REQUIRED TISSUE