

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**C Number:** C91014  
**Lock Date:** 01/02/1996  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Both  
**PWG Approval Date:** 09/29/1997

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 1	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503851

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
		Hypertrophy	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2-3 ]			
* Preputial Gland		Cyst	Minimal
[ Cyst TGLS = 1-8 ]			

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 94
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 9503852

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503853

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Hypertrophy	Minimal
* Intestine Small, Jejunum [ Hyperplasia TGLS = 2-9 ]	Hyperplasia	Lymphoid, Moderate
* Islets, Pancreatic	Hyperplasia	Minimal
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Liver [ Hepatocellular Adenoma TGLS = 1-9 ]	Hepatocellular Adenoma	
* Stomach, Glandular	Mineralization	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>ANIMAL ID:</b> 5	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503855

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Necrosis	Minimal
		[ Eosinophilic Focus TGLS = 3-9 ]	
		[ Hepatocellular Adenoma TGLS = 2-4 ]	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Preputial Gland		Cyst	Minimal
		[ Cyst TGLS = 1-8 ]	
* Thyroid Gland	Follicle	Cyst	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 91014-04

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Oleic acid diethanolamine condensate

CAS Number: 93-83-4

Date Report Requested: 10/17/2014

Time Report Requested: 21:05:04

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 7	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 667
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9503857

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 1-2, 9 ]		
* Preputial Gland		Inflammation	Chronic Active, Moderate
* Skin	SOA	Exudate	Minimal
	SOA	Hyperkeratosis	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 8	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503858

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 1-9 ]	Adenoma	
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Liver	Basophilic Focus	
* Preputial Gland [ Cyst TGLS = 2-8 ]	Cyst	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 9	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503859

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		[ Eosinophilic Focus TGLS = 3-4 ]	
		[ Hepatocellular Adenoma TGLS = 1-9; 2-10; 4-10 ]	
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 10	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503860

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

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**MISSING**

* Gallbladder	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Mild
		Hypertrophy	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
[ Basophilic Focus TGLS = 3-9 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
[ Alveolar/Bronchiolar Carcinoma TGLS = 1-2; 2-2 ]			
* Thyroid Gland	Follicular Cel	Carcinoma	
[ Carcinoma TGLS = 4-2 ]			

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 11	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503861

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Hypertrophy	Mild
* Islets, Pancreatic	Hyperplasia	Mild
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Eosinophilic Focus	
	Hepatocellular Adenoma	Multiple
[ Basophilic Focus TGLS = 1-9 ]		
[ Hepatocellular Adenoma TGLS = 2-9; 3-3 ]		
* Stomach, Glandular	Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 4-9 ]		
* Thymus	Atrophy	Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 12	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503862

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 2-4 ]		
* Preputial Gland		Cyst	Minimal
	[ Cyst TGLS = 3-8 ]		
* Spleen		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-9 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 13

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503863

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
[ Hyperplasia TGLS = 2-9 ]			
* Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-9 ]			
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 14

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503864

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Minimal
* Intestine Small, Jejunum		Carcinoma	
[ Carcinoma TGLS = 2-9 ]			
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 1-3 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 15	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503865

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Testes	* Thymus	* Trachea	* Urinary Bladder

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	Multiple
			[ Basophilic Focus TGLS = 4-9 ]
			[ Hepatocellular Adenoma TGLS = 1-3; 4-9 ]
* Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
			[ Alveolar/Bronchiolar Adenoma TGLS = 2-9 ]
			[ Alveolar/Bronchiolar Carcinoma TGLS = 3-10 ]
* Stomach, Glandular		Cyst	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 16	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503866

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

\* Mammary Gland

---

**OBSERVATIONS**

* Adrenal Cortex	Hypertrophy	Minimal
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Liver	Eosinophilic Focus	
[ Eosinophilic Focus TGLS = 2-9 ]		
* Pancreas	Necrosis	Mild
Note: The necrosis involved fat adjacent to the pancreas.		
[ Necrosis TGLS = 3-9 ]		
* Preputial Gland	Cyst	Minimal
[ Cyst TGLS = 1-8 ]		

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 18

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9503868

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 19

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503869

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Liver
* Lung	* Lymph Node, Mandibular	* 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**

* Intestine Small, Jejunum [ Carcinoma TGLS = 3-9 ]	Carcinoma	
* Islets, Pancreatic	Hyperplasia	Minimal
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Lymph Node, Mesenteric [ Hyperplasia TGLS = 1-4 ]	Hyperplasia	Lymphoid, Mild
* Spleen	Hematopoietic Cell Proliferation	Mild
* Urinary Bladder [ Leiomyosarcoma TGLS = 4-9 ]	Leiomyosarcoma	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 20	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503870

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

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

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**MISSING**

* Lymph Node, Mesenteric	* Mammary Gland
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**OBSERVATIONS**

* Islets, Pancreatic	Hyperplasia	Minimal
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Liver	Hepatocellular Adenoma	
	Infarct	Mild
Note: The tumor was necrotic. [ Hepatocellular Adenoma TGLS = 1-9 ]		
* Lung	Alveolar/Bronchiolar Adenoma	

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 21

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503871

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Hypertrophy	Minimal
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 22	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503872

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Hypertrophy	Minimal
* Adrenal Medulla	Hyperplasia	Minimal
* Bone Marrow	Hyperplasia	Mild
* Kidney	Nephropathy	Mild
* Liver	Hepatocellular Adenoma	
	Hepatocellular Carcinoma	Multiple
[ Hepatocellular Adenoma TGLS = 4-9 ]		
[ Hepatocellular Carcinoma TGLS = 2-2, 4, 9; 3-3 ]		
* Lung	Hepatocellular Carcinoma	Metastatic (Liver)
* Preputial Gland	Cyst	Minimal
[ Cyst TGLS = 1-8 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 23

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503873

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Gallbladder	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Liver	Eosinophilic Focus	
	Hepatocellular Adenoma	
[ Eosinophilic Focus TGLS = 2-4 ]		
[ Hepatocellular Adenoma TGLS = 3-9 ]		
* Preputial Gland	Cyst	Minimal
[ Cyst TGLS = 1-8 ]		
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 24	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 456
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9503874

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
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**AUTO PRECLUDES DIAG.**

\* Gallbladder

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**OBSERVATIONS**

* Liver	Hepatocellular Adenoma	
	Infarct	Mild
	Vacuolization Cytoplasmic	Minimal
Note: The tumor was necrotic. [ Hepatocellular Adenoma TGLS = 1-4 ]		
* Thymus	Atrophy	Mild

---

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Adenoma

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 25

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503875

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Adrenal Cortex	Hypertrophy	Minimal
* Islets, Pancreatic	Hyperplasia	Minimal
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Liver	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-9 ]		
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-9 ]		
* Preputial Gland	Cyst	Minimal
[ Cyst TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 26

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9503876

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 27

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503877

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Hypertrophy	Minimal
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Stomach, Glandular	Cyst	Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 28	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503878

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Mild
		Hypertrophy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Preputial Gland		Cyst	Minimal
[ Cyst TGLS = 1-8 ]			
* Stomach, Forestomach		Cyst	Minimal

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 29	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503879

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Necrosis	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 2-9 ]		
* Nose	Lateral Wall	Inflammation	Chronic Active, Mild
	Note: The inflammation involved the peridental tissue.		
* Preputial Gland		Cyst	Minimal
	[ Cyst TGLS = 1-8 ]		

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 30

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 452

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9503880

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Islets, Pancreatic	Hyperplasia	Mild
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	
	Necrosis	Minimal
[ Hepatocellular Carcinoma TGLS = 1-9 ]		
* Lung	Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 2-10 ]		

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 31	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503881

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-9 ]			
Lymph Node	Pancreatic	Hepatocellular Carcinoma	Metastatic (Liver)
[ Hepatocellular Carcinoma TGLS = 2-9 ]			

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 32	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503882

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Islets, Pancreatic	Hyperplasia	Mild
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Liver	Eosinophilic Focus	Multiple
	Hepatocellular Adenoma	Multiple
[ Eosinophilic Focus TGLS = 4-9; 5-3; 7-10 ]		
[ Hepatocellular Adenoma TGLS = 3-4; 6-3 ]		
* Preputial Gland	Cyst	Minimal
[ Cyst TGLS = 1-8 ]		
* Seminal Vesicle	Hypertrophy	Mild
[ Hypertrophy TGLS = 2-11 ]		

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 33

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503883

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 34	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503884

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

---

**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Bone Marrow	Hyperplasia	Mild
* Islets, Pancreatic	Hyperplasia	Mild
* Kidney	Nephropathy	Mild
* Liver	Hepatocellular Adenoma	Multiple
	Hepatocellular Carcinoma	
	Mixed Cell Focus	
	[ Hepatocellular Adenoma TGLS = 2-10; 4-3; 5-11; 6-4 ]	
	[ Hepatocellular Carcinoma TGLS = 1-9 ]	
* Lymph Node, Mesenteric	Angiectasis	Mild
* Preputial Gland	Cyst	Minimal
	[ Cyst TGLS = 3-8 ]	
* Spleen	Hematopoietic Cell Proliferation	Mild

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 35

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503885

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-4 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Minimal
[ Alveolar/Bronchiolar Adenoma TGLS = 3-9 ]			
[ Alveolar/Bronchiolar Carcinoma TGLS = 1-9 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 36

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503886

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

Harderian Gland	Adenoma	
[ Adenoma TGLS = 1-9 ]		
* Islets, Pancreatic	Hyperplasia	Minimal
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Liver	Eosinophilic Focus	Multiple
	Hepatocellular Adenoma	
[ Eosinophilic Focus TGLS = 3-9 ]		
[ Hepatocellular Adenoma TGLS = 2-4 ]		
* Lymph Node, Mandibular	Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 37

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503887

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia Hypertrophy	Mild Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Mineralization Nephropathy	Minimal Mild
* Liver		Hepatocellular Adenoma Mixed Cell Focus	Multiple
		[ Hepatocellular Adenoma TGLS = 3-9; 5-9 ]	
		[ Mixed Cell Focus TGLS = 4-10 ]	
Mesentery	Fat	Necrosis	Mild
		[ Necrosis TGLS = 2-10 ]	
* Preputial Gland		Cyst Inflammation	Minimal Chronic Active, Minimal
		[ Cyst TGLS = 1-8 ]	
		[ Inflammation TGLS = 1-8 ]	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 38	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503888

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**OBSERVATIONS**

* Intestine Small, Jejunum [ Hyperplasia TGLS = 2-9 ]	Hyperplasia	Lymphoid, Moderate
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Mild
* Preputial Gland [ Cyst TGLS = 1-8 ]	Cyst	Minimal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 39

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503889

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Hypertrophy	Minimal
* Islets, Pancreatic	Hyperplasia	Minimal
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Spleen	Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 40

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9503890

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 41	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503891

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Liver	Hemangiosarcoma	Multiple
	Necrosis	Mild
[ Hemangiosarcoma TGLS = 2-10; 3-11; 4-3, 9; 5-4 ]		
* Preputial Gland	Inflammation	Chronic Active, Mild
[ Inflammation TGLS = 1-8 ]		
* Spleen	Hematopoietic Cell Proliferation	Mild

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 42	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503892

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* 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
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

---

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 2-10 ]	Hyperplasia	Mild
	[ Hyperplasia TGLS = 1-9 ]		
* Preputial Gland		Angiectasis	Minimal
	[ Angiectasis TGLS = 3-8 ]		

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 43

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 485

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9503893

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

Blood Vessel		Fibrous Histiocytoma	Metastatic (Liver)
* Bone Marrow		Fibrous Histiocytoma	Metastatic (Liver)
* Heart		Fibrous Histiocytoma	Metastatic (Liver)
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Fibrous Histiocytoma	Metastatic (Liver)
[ Fibrous Histiocytoma TGLS = 1-3 ]			
* Liver		Fibrous Histiocytoma	
		Hepatocellular Adenoma	
		Necrosis	Mild
[ Fibrous Histiocytoma TGLS = 5-9; 6-10; 7-9; 8-4; 9-10 ]			
* Lung		Fibrous Histiocytoma	Metastatic (Liver)
[ Fibrous Histiocytoma TGLS = 4-2 ]			
Lymph Node	Lumbar	Fibrous Histiocytoma	Metastatic (Liver)
	Renal	Fibrous Histiocytoma	Metastatic (Liver)
Note: The tumor was in the perinodal tissue.			
[ Fibrous Histiocytoma TGLS = 2-10 ]			
[ Fibrous Histiocytoma TGLS = 3-9 ]			
* Lymph Node, Mandibular		Fibrous Histiocytoma	Metastatic (Liver)
Mesentery		Fibrous Histiocytoma	Metastatic (Liver)
* Nose		Fibrous Histiocytoma	Metastatic (Liver)

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 43	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 485
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9503893

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas	Fibrous Histiocytoma	Metastatic (Liver)
* Salivary Glands	Fibrous Histiocytoma	Metastatic (Liver)
* Skin	Fibrous Histiocytoma	Metastatic (Liver)
* Urinary Bladder	Fibrous Histiocytoma	Metastatic (Liver)

---

**PRIMARY CAUSE OF DEATH** - Liver Fibrous Histiocytoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 44

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9503894

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 45	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503895

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Cyst	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
[ Cyst TGLS = 4-3, 11 ]			
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
[ Eosinophilic Focus TGLS = 2-3 ]			
[ Hepatocellular Adenoma TGLS = 1-9; 3-10 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 46

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503896

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Hypertrophy	Minimal
* Islets, Pancreatic	Hyperplasia	Minimal
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Spleen	Hemangiosarcoma	
* Testes	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 47

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503897

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Preputial Gland
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**OBSERVATIONS**

* Adrenal Cortex	Hypertrophy	Minimal
* Islets, Pancreatic	Hyperplasia	Mild
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Liver	Mixed Cell Focus	

[ Mixed Cell Focus TGLS = 1-4 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 48

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 695

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9503898

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Lymphoma Malignant	
Blood Vessel		Lymphoma Malignant	
* Bone Marrow		Lymphoma Malignant	
* Epididymis		Lymphoma Malignant	
* Heart		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
		Mineralization	Minimal
* Liver		Lymphoma Malignant	
		Necrosis	Mild
[ Lymphoma Malignant TGLS = 4-2, 3, 4 ]			
* Lung		Lymphoma Malignant	
Lymph Node	Lumbar	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-10 ]			
[ Lymphoma Malignant TGLS = 5-9 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-1 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
Mesentery		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-4 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 48	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 695
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9503898

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland	Lymphoma Malignant
* Prostate	Lymphoma Malignant
* Salivary Glands	Lymphoma Malignant
* Seminal Vesicle	Lymphoma Malignant
* Spleen	Lymphoma Malignant
[ Lymphoma Malignant TGLS = 2-3 ]	
* Thymus	Lymphoma Malignant
* Urinary Bladder	Lymphoma Malignant

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**PRIMARY CAUSE OF DEATH**                      - Lymph Node, Mesenteric    Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 49

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503899

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Mild
		Hypertrophy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Preputial Gland		Cyst	Minimal
		Inflammation	Chronic Active, Minimal
[ Cyst TGLS = 1-8 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 50	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 561
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9503900

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

* Lymph Node, Mandibular	* Mammary Gland
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**AUTO PRECLUDES DIAG.**

\* Intestine Small, Duodenum

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**OBSERVATIONS**

* Adrenal Cortex	Hyperplasia	Mild
* Liver	Hepatocellular Carcinoma	

Note: The tumor was necrotic.

[ Hepatocellular Carcinoma TGLS = 1-2, 4 ]

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**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Carcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 51	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503901

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLS = 1-2, 4; 2-3 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 52

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503902

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 1-2 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 53

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 699

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9503903

**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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**AUTO PRECLUDES DIAG.**

\* Gallbladder

**OBSERVATIONS**

* Bone Marrow	Hyperplasia	Mild
* Islets, Pancreatic	Hyperplasia	Minimal
* Kidney	Nephropathy	Minimal
Note: Focus of adipose tissue on capsule would account for the focus observed at necropsy. Also focal neuropathy in same area. [ Nephropathy TGLS = 1-3; 11 ]		
* Liver	Eosinophilic Focus	Multiple
	Hepatocellular Carcinoma	Multiple
	Necrosis	Mild
[ Eosinophilic Focus TGLS = 4-11 ] [ Hepatocellular Carcinoma TGLS = 2-9; 3-10 ]		
* Lung	Hepatocellular Carcinoma	Metastatic (Liver)
* Spleen	Hematopoietic Cell Proliferation	Moderate
* Thymus	Atrophy	Mild

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 54

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503904

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Hypertrophy	Mild
* Islets, Pancreatic	Hyperplasia	Mild
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Liver	Clear Cell Focus	
	Eosinophilic Focus	Multiple
	Hepatocellular Adenoma	
[ Clear Cell Focus TGLS = 2-3 ]		
[ Eosinophilic Focus TGLS = 2-3 ]		
[ Hepatocellular Adenoma TGLS = 1-4 ]		
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-9 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 55

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503905

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Adenoma	
	Hypertrophy	Mild
* Islets, Pancreatic	Hyperplasia	Minimal
* Kidney	Cyst	Mild
	Mineralization	Minimal
	Nephropathy	Minimal
[ Cyst TGLS = 1-3 ]		
* Liver	Clear Cell Focus	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 56

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503906

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Mild
* Kidney		Mineralization	Minimal
* Liver		Hemangiosarcoma	Multiple
		Mixed Cell Focus	
[ Hemangiosarcoma TGLS = 2-9; 3-10 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Angiectasis	Mild
		Hemangiosarcoma	
		Inflammation	Chronic Active, Mild
[ Angiectasis TGLS = 1-3 ]			
[ Inflammation TGLS = 1-3 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 57

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503907

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Hepatocellular Adenoma	
		Mixed Cell Focus	Multiple
	[ Hepatocellular Adenoma TGLS = 1-4 ]		
* Pancreas		Basophilic Focus	
* Preputial Gland		Cyst	Minimal
	[ Cyst TGLS = 2-8 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 59	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 15 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503909

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

* Mammary Gland	* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Hypertrophy	Minimal
* Islets, Pancreatic	Hyperplasia	Minimal
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 1-9 ]		
* Preputial Gland	Cyst	Mild
[ Cyst TGLS = 2-8 ]		

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 60

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503910

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatocellular Carcinoma	
	[ Basophilic Focus TGLS = 3-10 ]		
	[ Hepatocellular Carcinoma TGLS = 1-9 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 2-9 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 61	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 15 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503911

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Mixed Cell Focus	
[ Hepatocellular Adenoma TGLS = 1-4 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Parakeratosis	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 62

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 15 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9503912

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**OBSERVATIONS**

\* Skin

SOA

Hyperkeratosis

Minimal

Epidermis, SOA

Hyperplasia

Minimal

SOA, Sebaceous GI

Hyperplasia

Minimal

Dermis, SOA

Inflammation

Chronic Active, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 63

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503913

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	Multiple
		Eosinophilic Focus	
	[ Basophilic Focus TGLS = 2-10 ]		
	[ Clear Cell Focus TGLS = 2-10 ]		
	[ Eosinophilic Focus TGLS = 4-9 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 3-9 ]		
* Preputial Gland		Cyst	Minimal
	[ Cyst TGLS = 1-8 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 63

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503913

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 64

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503914

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2-3; 3-4 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 4-9 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-3 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 65

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503915

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* 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	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

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

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Multiple
[ Eosinophilic Focus TGLS = 1-3; 2-9 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 66

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503916

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 2-4 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Hyperplasia TGLS = 1-9 ]	Hyperplasia	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 67	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 15 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503917

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

* Gallbladder	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 68      **TRT#:** 3      **SEX:** Male      **DAY ON TEST:** 729  
**DOSE:** 15 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 9503918

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Kidney	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Mild
* Intestine Small, Jejunum	Peyers Patch	Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 1-4 ]			
* Islets, Pancreatic		Hyperplasia	Mild
* Liver		Basophilic Focus	
		Hemangiosarcoma	
		Mixed Cell Focus	Multiple
[ Basophilic Focus TGLS = 4-3 ]			
[ Hemangiosarcoma TGLS = 2-9 ]			
[ Mixed Cell Focus TGLS = 3-4; 4-3 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Skin	SOA	Exudate	Minimal
	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 69	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 15 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503919

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Minimal
* Kidney		Cyst	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Mixed Cell Focus	Multiple
			[ Clear Cell Focus TGLS = 2-4 ]
			[ Mixed Cell Focus TGLS = 2-3; 2-9 ]
* Preputial Gland		Cyst	Minimal
			[ Cyst TGLS = 1-8 ]
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 70

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 15 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9503920

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**OBSERVATIONS**

\* Skin

SOA

Hyperkeratosis

Minimal

Epidermis, SOA

Hyperplasia

Minimal

SOA, Sebaceous GI

Hyperplasia

Minimal

Dermis, SOA

Inflammation

Chronic Active, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 71

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 547

**DOSE:** 15 MG/KG

**DISP:** Natural Death

**HISTO:** 9503921

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Multiple
		Hepatocellular Carcinoma	
Note: Two adenomas present.			
			[ Eosinophilic Focus TGLS = 4-3; 5-9 ]
			[ Hepatocellular Carcinoma TGLS = 3-4 ]
* Lung		Alveolar/Bronchiolar Carcinoma	
			[ Alveolar/Bronchiolar Carcinoma TGLS = 6-2 ]
* Preputial Gland		Cyst	Minimal
			[ Cyst TGLS = 2-8 ]
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Minimal
		Schwannoma Benign	
Note: Schwannoma was in the tail.			
			[ Schwannoma Benign TGLS = 1-10 ]
* Spleen		Hematopoietic Cell Proliferation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 71

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 547

**DOSE:** 15 MG/KG

**DISP:** Natural Death

**HISTO:** 9503921

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 72

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503922

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
	[ Hepatocellular Adenoma TGLS = 5-3; 4-10 ]		
	[ Mixed Cell Focus TGLS = 7-4 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 6-9 ]		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 2-11; 3-11 ]		
* Parathyroid Gland		Hyperplasia	Mild
* Skin	SOA	Exudate	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	Sebaceous GI	Hyperplasia	Marked
	Dermis, SOA	Inflammation	Chronic Active, Minimal
	Epidermis, SOA	Parakeratosis	Minimal
	[ Hyperplasia TGLS = 1-11 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 72

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503922

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 73

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503923

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Mixed Cell Focus	Multiple
	[ Hepatocellular Adenoma TGLS = 1-9 ]		
	[ Mixed Cell Focus TGLS = 2-9; 3-3 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 74	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 15 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503924

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Liver	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 2-9 ]			
* Seminal Vesicle		Cyst	Mild
[ Cyst TGLS = 1-9 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 75                      **TRT#:** 3                      **SEX:** Male                      **DAY ON TEST:** 729  
**DOSE:** 15 MG/KG                      **DISP:** Terminal Sacrifice                      **HISTO:** 9503925

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Lymph Node, Mesenteric	* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Mixed Cell Focus	
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 2-9 ]		
* Preputial Gland		Cyst	Minimal
	[ Cyst TGLS = 1-8 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 76	<b>TRT#:</b> 3 <b>DOSE:</b> 15 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 9503926
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

* Gallbladder	* Mammary Gland
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**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hemangiosarcoma	Multiple
		Hepatocellular Adenoma	
		Mixed Cell Focus	
[ Hemangiosarcoma TGLS = 2-10; 3-3; 4-9 ]			
[ Hepatocellular Adenoma TGLS = 5-9 ]			
[ Mixed Cell Focus TGLS = 2-10 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 6-9 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-3 ]			

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 77	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 15 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503927

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

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**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 2-4; 3-9 ]		
* Preputial Gland		Cyst	Minimal
		Inflammation	Chronic Active, Moderate
	[ Cyst TGLS = 1-8 ]		
	[ Inflammation TGLS = 1-8 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 78

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503928

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
* Pancreas	Duct	Cyst	Mild
[ Cyst TGLS = 1-9 ]			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 79

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503929

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Islets, Pancreatic		Adenoma	
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 80      **TRT#:** 3      **SEX:** Male      **DAY ON TEST:** 712  
**DOSE:** 15 MG/KG      **DISP:** Moribund Sacrifice      **HISTO:** 9503930

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Gallbladder	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Epididymis		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-6 ]			
* Kidney		Nephropathy	Moderate
* Liver		Eosinophilic Focus	Multiple
		Hepatocellular Carcinoma	
[ Eosinophilic Focus TGLS = 4-4 ]			
[ Hepatocellular Carcinoma TGLS = 2-10 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
	Alveolar Epith	Hyperplasia	Mild
[ Alveolar/Bronchiolar Carcinoma TGLS = 1-9 ]			
[ Hyperplasia TGLS = 1-9 ]			
Lymph Node	Mediastinal	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Minimal
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes		Atrophy	Moderate

**PRIMARY CAUSE OF DEATH**      - Liver    Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 81

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 720

**DOSE:** 15 MG/KG

**DISP:** Natural Death

**HISTO:** 9503931

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Epididymis		Lymphoma Malignant	
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Lymphoma Malignant	
		Mineralization	Minimal
* Liver		Lymphoma Malignant	
		Necrosis	Mild
	[ Lymphoma Malignant TGLS = 3-3, 4 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
	[ Alveolar/Bronchiolar Adenoma TGLS = 8-9 ]		
Lymph Node	Lumbar	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 7-7 ]		
	[ Lymphoma Malignant TGLS = 6-10 ]		
	[ Lymphoma Malignant TGLS = 4-9 ]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 5-4 ]		
Mesentery		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 1-11 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 81	<b>TRT#:</b> 3 <b>DOSE:</b> 15 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 720 <b>HISTO:</b> 9503931
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate		Lymphoma Malignant	
* Seminal Vesicle		Lymphoma Malignant	
* Skin	SOA Epidermis, SOA Dermis, SOA	Hyperkeratosis Hyperplasia Inflammation	Minimal Minimal Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant	Mild
[ Lymphoma Malignant TGLS = 2-3 ]			
* Stomach, Glandular		Adenoma	
[ Adenoma TGLS = 9-10 ]			
* Testes		Atrophy	Mild
* Thymus		Lymphoma Malignant	

---

PRIMARY CAUSE OF DEATH - Lymph Node, Mesenteric Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 82

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503932

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	Multiple
Note: One adenoma was necrotic. [ Hepatocellular Adenoma TGLS = 1-3; 9 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-2 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 83

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503933

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 1-9 ]		Adenoma	
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
[ Eosinophilic Focus TGLS = 4-9 ]			
[ Hepatocellular Adenoma TGLS = 3-3 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 5-2 ]			
* Preputial Gland		Cyst	Minimal
[ Cyst TGLS = 2-8 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Squamous Cell Carcinoma	
[ Squamous Cell Carcinoma TGLS = 6-10 ]			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 84

**TRT#:** 3  
**DOSE:** 15 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 94  
**HISTO:** 9303934

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**OBSERVATIONS**

\* Skin

SOA  
Epidermis, SOA  
SOA, Sebaceous GI  
Dermis, SOA  
Epidermis, SOA

Hyperkeratosis  
Hyperplasia  
Hyperplasia  
Inflammation  
Parakeratosis

Minimal  
Mild  
Minimal  
Chronic Active, Minimal  
Minimal

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[ Hyperplasia TGLS = 1-1+2 ]

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 85	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 15 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503935

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 2-3; 3-9 ]		
* Preputial Gland		Cyst	Minimal
	[ Cyst TGLS = 1-8 ]		
* Skin	Dermis, SOA	Inflammation	Chronic Active, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 86	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 628
	<b>DOSE:</b> 15 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9503936

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
Note: The carcinoma was attached the the tissue around the vertebrae. [ Alveolar/Bronchiolar Carcinoma TGLS = 2-2;3-9;1-10 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Stomach, Forestomach		Squamous Cell Papilloma	

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**PRIMARY CAUSE OF DEATH** - Lung Alveolar/Bronchiolar Carcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 87

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 708

**DOSE:** 15 MG/KG

**DISP:** Natural Death

**HISTO:** 9503937

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 3-3 ]		
	[ Hepatocellular Carcinoma TGLS = 2-9 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-6 ]		

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 88	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 15 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503938

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Mixed Cell Focus	Multiple
	[ Mixed Cell Focus TGLS = 1-4; 2-3 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 3-2 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 89	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 15 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503939

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Thymus

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**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	Multiple
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Multiple
[ Clear Cell Focus TGLS = 3-9 ]			
[ Hepatocellular Adenoma TGLS = 1-9 ]			
[ Hepatocellular Carcinoma TGLS = 2-2, 4 ]			
[ Mixed Cell Focus TGLS = 4-9 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 90

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 621

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9503940

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Blood Vessel	* Bone	* Brain	* Esophagus
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Lymphoma Malignant	
* Adrenal Medulla		Lymphoma Malignant	
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Lymphoma Malignant	
* Heart		Lymphoma Malignant	
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-3 ]			
* Liver		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-9; 5-3 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Hyperplasia	Moderate
		Lymphoma Malignant	
[ Alveolar/Bronchiolar Adenoma TGLS = 11-2 ]			
[ Hyperplasia TGLS = 11-2 ]			
Lymph Node	Deep Cervical	Lymphoma Malignant	
	Lumbar	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 9-7 ]			
[ Lymphoma Malignant TGLS = 3-10 ]			
[ Lymphoma Malignant TGLS = 10-9 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 90	<b>TRT#:</b> 3 <b>DOSE:</b> 15 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 621 <b>HISTO:</b> 9503940
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Lymph Node, Mandibular [ Lymphoma Malignant TGLS = 6-1 ]		Lymphoma Malignant	
* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 7-4 ]		Lymphoma Malignant	
* Prostate		Lymphoma Malignant	
* Seminal Vesicle		Lymphoma Malignant	
* Skin	SOA Epidermis, SOA Dermis, SOA	Hyperkeratosis Hyperplasia Inflammation Lymphoma Malignant Lymphoma Malignant	Mild Minimal Chronic Active, Minimal
* Spleen [ Lymphoma Malignant TGLS = 1-3 ]		Lymphoma Malignant Lymphoma Malignant	
* Testes		Atrophy	Mild
* Thymus		Lymphoma Malignant	

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**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 91	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 15 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9503941

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Minimal
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	Multiple
		Hepatocellular Adenoma	Multiple
		Lymphoma Malignant	
		Mixed Cell Focus	Multiple
	[ Hepatocellular Adenoma TGLS = 2-3; 4-10 ]		
	[ Lymphoma Malignant TGLS = 1-3 ]		
	[ Mixed Cell Focus TGLS = 3-9; 5-9 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Skin	Epidermis, SOA	Hyperplasia	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 92

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 660

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9503942

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

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

* Adrenal Cortex	Capsule	Lymphoma Malignant	
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-3, 9 ]			
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 3-3 ]			
* Lung		Lymphoma Malignant	
* Skin	SOA	Exudate	Minimal
	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-3 ]			

**PRIMARY CAUSE OF DEATH** - Kidney Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 93

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 15 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9503943

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**OBSERVATIONS**

\* Skin

Epidermis, SOA  
SOA, Sebaceous GI  
Dermis, SOA

Hyperplasia  
Hyperplasia  
Inflammation

Minimal  
Minimal  
Chronic Active, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 94                      **TRT#:** 3                      **SEX:** Male                      **DAY ON TEST:** 729  
**DOSE:** 15 MG/KG                      **DISP:** Terminal Sacrifice                      **HISTO:** 9503944

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

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

* Bone Marrow		Hemangiosarcoma	Metastatic (Spleen)
* Heart		Hemangiosarcoma	Metastatic (Spleen)
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Multiple
		Hepatocellular Adenoma	Multiple
[ Eosinophilic Focus TGLS = 7-3;8-9 ]			
[ Hepatocellular Adenoma TGLS = 7-3,4-2,6-4 ]			
* Seminal Vesicle		Cyst	Mild
[ Cyst TGLS = 2-6 ]			
* Skin		Hemangiosarcoma	Metastatic (Spleen)
[ Hemangiosarcoma TGLS = 5-9 ]			
* Spleen		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 1-3, 9 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 95

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503945

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-4 ]			
* Preputial Gland		Cyst	Minimal
[ Cyst TGLS = 1-8 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 96

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 15 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9503946

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**OBSERVATIONS**

\* Skin

SOA

Hyperkeratosis

Minimal

Epidermis, SOA

Hyperplasia

Minimal

SOA, Sebaceous GI

Hyperplasia

Minimal

Dermis, SOA

Inflammation

Chronic Active, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 97

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503947

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-9 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 2-9 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 98	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 624
	<b>DOSE:</b> 15 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9503948

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Islets, Pancreatic	Hyperplasia	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-9 ]		
* Spleen	Hematopoietic Cell Proliferation	Mild

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**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Carcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 99

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503949

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Bone Marrow		Hyperplasia	Mild
		Myelofibrosis	Minimal
* Islets, Pancreatic		Adenoma	
		Hyperplasia	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[ Eosinophilic Focus TGLS = 2-9 ]		
	[ Hepatocellular Adenoma TGLS = 1-3 ]		
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 100

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 628

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9503950

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Lymphoma Malignant Nephropathy	Moderate
[ Lymphoma Malignant TGLS = 1-3 ]			
[ Nephropathy TGLS = 2-3 ]			
* Liver		Lymphoma Malignant	
* Lung		Hemorrhage	Mild
Lymph Node	Lumbar	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-9 ]			
[ Lymphoma Malignant TGLS = 3-10 ]			
* Lymph Node, Mesenteric		Ectasia	Moderate
[ Ectasia TGLS = 5-4 ]			
* Skin	Subcut Tiss	Edema	Mild
	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
[ Edema TGLS = 6-7 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 100

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 628

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9503950

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Spleen

Hematopoietic Cell Proliferation

Mild

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PRIMARY CAUSE OF DEATH

- Kidney Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 101

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503951

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Mild
		Hypertrophy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 102

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503952

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 1-9 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-3 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 103      **TRT#:** 3      **SEX:** Male      **DAY ON TEST:** 729  
**DOSE:** 15 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 9503953

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hemangiosarcoma	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hemangiosarcoma TGLS = 2-2; 3-2, 3, 4, 9 ]		
	[ Hepatocellular Adenoma TGLS = 3-4 ]		
	[ Hepatocellular Carcinoma TGLS = 1-3 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Skin	SOA	Hyperkeratosis	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 104      **TRT#:** 3      **SEX:** Male      **DAY ON TEST:** 697  
**DOSE:** 15 MG/KG      **DISP:** Moribund Sacrifice      **HISTO:** 9503954

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland      \* Thymus

**OBSERVATIONS**

* Adrenal Cortex		Hepatocholangiocarcinoma	Metastatic (Liver)
	Capsule	Hyperplasia	Minimal
		Hypertrophy	Minimal
* Intestine Small, Duodenum		Hepatocholangiocarcinoma	Metastatic (Liver)
* Intestine Small, Ileum		Hepatocholangiocarcinoma	Metastatic (Liver)
* Intestine Small, Jejunum		Hepatocholangiocarcinoma	Metastatic (Liver)
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
* Liver		Hepatocholangiocarcinoma	
	[ Hepatocholangiocarcinoma TGLS = 2-9 ]		
* Lung		Hepatocholangiocarcinoma	Metastatic (Liver)
* Pancreas		Hepatocholangiocarcinoma	Metastatic (Liver)
Skeletal Muscle		Hepatocholangiocarcinoma	Metastatic (Liver)
	Note: The hepatocholangiocarcinoma was on the diaphragm.		
	[ Hepatocholangiocarcinoma TGLS = 3-9 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hemangiosarcoma	

**PRIMARY CAUSE OF DEATH** - Skeletal Muscle Hepatocholangiocarcinoma Liver

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 104

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 697

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9503954

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 105

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 176

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9503955

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Lymph Node, Mesenteric	* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

Blood Vessel		Lymphoma Malignant	
* Heart		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Liver		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Thymus		Lymphoma Malignant	

[ Lymphoma Malignant TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

- Thymus Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 106

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 567

**DOSE:** 15 MG/KG

**DISP:** Natural Death

**HISTO:** 9503956

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Intestine Large, Rectum	* Mammary Gland	* Thymus
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**AUTO PRECLUDES DIAG.**

* Gallbladder	* Intestine Large, Cecum
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**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Accumulation, Hyaline Droplet	Moderate
		Mineralization	Minimal
* Liver		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLS = 1-2, 3, 4, 9; 2-3; 3-9 ]		
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate

**PRIMARY CAUSE OF DEATH**

- Liver Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 107

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503957

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 2-11 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
		Hyperplasia	Minimal
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-10 ]			
[ Hyperplasia TGLS = 4-9 ]			
* Preputial Gland		Cyst	Minimal
[ Cyst TGLS = 1-8 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 108

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 425

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9503958

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Heart	Artery	Inflammation Necrosis	Chronic Active, Mild Minimal
* Intestine Small, Duodenum		Ulcer	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Liver		Vacuolization Cytoplasmic	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Minimal

**PRIMARY CAUSE OF DEATH**

- Heart Artery Inflammation

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 109

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 686

**DOSE:** 15 MG/KG

**DISP:** Natural Death

**HISTO:** 9503959

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Parathyroid Gland	* Thymus
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**AUTO PRECLUDES DIAG.**

\* Gallbladder

**OBSERVATIONS**

* Intestine Small, Jejunum [ Hepatocholangiocarcinoma TGLS = 5-9 ]		Hepatocholangiocarcinoma	Metastatic (Liver)
* Kidney		Mineralization	Minimal
* Liver Note: The metastatic lung tumors from the liver had a bile duct component which was not apparent in the liver section but was probably in an adjacent area. [ Hepatocholangiocarcinoma TGLS = 2-10 ]		Hepatocholangiocarcinoma	
* Lung [ Hepatocholangiocarcinoma TGLS = 3-2; 4-9; 6-10 ]		Hepatocholangiocarcinoma	Metastatic (Liver)
* Preputial Gland [ Cyst TGLS = 1-6 ]		Cyst	Mild
* Skin	SOA Epidermis, SOA Dermis, SOA	Hyperkeratosis Hyperplasia Inflammation	Minimal Minimal Chronic Active, Minimal
* Stomach, Forestomach		Hyperkeratosis Hyperplasia	Mild Mild

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocholangiocarcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 110

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 709

**DOSE:** 15 MG/KG

**DISP:** Natural Death

**HISTO:** 9503960

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Mineralization	Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
[ Hepatocellular Adenoma TGLS = 3-9 ]			
[ Hepatocellular Carcinoma TGLS = 2-9 ]			
* Preputial Gland		Hemangioma	
* Skin	SOA	Hyperkeratosis	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Mild
		Ulcer	Mild
[ Hyperplasia TGLS = 1-4 ]			

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 111

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503961

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Bone Marrow		Hemangiosarcoma	
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Mixed Cell Focus	
Note: NO CORRELATING LESION FOR TGLS 2-9.			
			[ Eosinophilic Focus TGLS = 3-3 ]
			[ Mixed Cell Focus TGLS = 3-10 ]
* Lung		Alveolar/Bronchiolar Adenoma	
			[ Alveolar/Bronchiolar Adenoma TGLS = 4-11 ]
* Lymph Node, Mesenteric		Lymphoma Malignant	
			[ Lymphoma Malignant TGLS = 5-4 ]
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Inflammation	Suppurative, Minimal
	Epidermis, SOA	Parakeratosis	Minimal
	SOA	Ulcer	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 111

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503961

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Spleen

Hemangiosarcoma

[ Hemangiosarcoma TGLS = 1-3 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 112

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503962

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Testes
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 2-9 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Preputial Gland		Cyst	Mild
[ Cyst TGLS = 1-8 ]			
* Skin	SOA	Exudate	Minimal
	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Parakeratosis	Minimal
* Stomach, Glandular		Cyst	Mild
		Mineralization	Mild
* Thyroid Gland		Adenoma	
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 112

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503962

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 113

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503963

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Mixed Cell Focus	
[ Hepatocellular Adenoma TGLS = 1-9 ]			
* Skin	SOA	Exudate	Minimal
	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Marked
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Inflammation	Suppurative, Minimal
	SOA	Ulcer	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 114

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503964

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone Marrow		Hemangiosarcoma	
Lacrimal Gland		Mineralization	Minimal
* Liver		Eosinophilic Focus	
		Mixed Cell Focus	Multiple
[ Eosinophilic Focus TGLS = 1-3 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 91014-04  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Oleic acid diethanolamine condensate  
CAS Number: 93-83-4

Date Report Requested: 10/17/2014  
Time Report Requested: 21:05:04  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 115      TRT#: 5      SEX: Male      DAY ON TEST: 537  
DOSE: 30 MG/KG      DISP: Moribund Sacrifice      HISTO: 9503965

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Thymus	
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OBSERVATIONS

* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Pigmentation	Moderate
* Liver		Basophilic Focus	
		Hepatoblastoma	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		Necrosis	Mild
	[ Basophilic Focus TGLS = 5-10 ]		
	[ Hepatoblastoma TGLS = 1-9 ]		
	[ Hepatocellular Adenoma TGLS = 4-10 ]		
	[ Hepatocellular Carcinoma TGLS = 2-4; 3-2 ]		
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Cyst	Mild

PRIMARY CAUSE OF DEATH      - Liver Hepatoblastoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 116

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503966

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	Multiple
	[ Hepatocellular Adenoma TGLS = 2-9; 3-9 ]		
	[ Mixed Cell Focus TGLS = 4-4; 5-3 ]		
* Preputial Gland		Cyst	Minimal
	[ Cyst TGLS = 1-8 ]		
* Skin	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 117

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503967

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Liver	Bile Duct	Cyst Hepatocellular Carcinoma	Mild
	[ Cyst TGLS = 3-10 ] [ Hepatocellular Carcinoma TGLS = 1-9 ]		
* Lung		Alveolar/Bronchiolar Carcinoma Hepatocellular Carcinoma	Metastatic (Liver)
	[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2 ]		
* Skin	SOA Epidermis, SOA Dermis, SOA	Hyperkeratosis Hyperplasia Inflammation	Minimal Minimal Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 118

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503968

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Lymph Node, Mesenteric	* Mammary Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 2-9 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Inflammation	Suppurative, Minimal
* Testes	Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-6 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 119

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503969

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Skin	Epidermis, SOA	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Parakeratosis	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 120

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 660

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 9503970

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

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

* Intestine Small, Duodenum		Ulcer	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
		Necrosis	Mild
[ Hepatocellular Carcinoma TGLS = 2-9 ]			
* Preputial Gland		Cyst	Mild
[ Cyst TGLS = 1-8 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Stomach, Glandular		Erosion	Mild
[ Erosion TGLS = 3-4 ]			
* Thymus		Atrophy	Mild

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 121

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503971

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* 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	* Nose
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Mild
* Pancreas	Duct	Cyst	Minimal
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 122

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503972

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Mild
Harderian Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 3-9 ]			
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-3 ]			
* Preputial Gland		Cyst	Minimal
[ Cyst TGLS = 1-8 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Thymus		Hemangioma	

Note: The hemangioma was in the adipose tissue adjacent to the thymus.

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 123

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503973

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Mild
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-3 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Minimal
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-2 ]			
* Preputial Gland		Cyst	Minimal
[ Cyst TGLS = 1-8 ]			
* Skin	SOA	Exudate	Mild
	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
	Dermis, SOA	Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 124

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 488

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9503974

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Skin	SOA	Exudate	Moderate
	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Marked
	SOA	Ulcer	Marked
[ Ulcer TGLS = 1-9 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-3 ]			

**PRIMARY CAUSE OF DEATH**

- Skin SOA Ulcer

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 125

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503975

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
Note: NO CORRELATING LESION FOR TGLS 5-9.			
[ Hepatocellular Adenoma TGLS = 3-2, 4 ]			
[ Hepatocellular Carcinoma TGLS = 4-3 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 6-9 ]			
* Preputial Gland		Cyst	Minimal
[ Cyst TGLS = 2-8 ]			
* Skin	SOA	Exudate	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 125

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503975

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Spleen

Hematopoietic Cell Proliferation

Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 126

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 642

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9503976

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland                      \* Thymus

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 1-2, 3, 4 ]		
* Lung		Hepatocholangiocarcinoma	Metastatic (Liver)
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 127

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 356

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 9503977

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Heart		Lymphoma Malignant	
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Lymphoma Malignant	
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-3 ]			
* Lung		Lymphoma Malignant	
Lymph Node	Mediastinal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-9 ]			
* Salivary Glands		Lymphoma Malignant	
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Minimal
	Epidermis, SOA	Parakeratosis	Minimal
* Thymus		Lymphoma Malignant	

**PRIMARY CAUSE OF DEATH** - Lymph Node Mediastinal Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 128

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503978

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
[ Eosinophilic Focus TGLS = 1-4 ]			
* Lung	Mediastinum	Hemangioma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 129

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 577

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 9503979

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**AUTO PRECLUDES DIAG.**

\* Gallbladder

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
		Necrosis	Mild
	[ Hepatocellular Carcinoma TGLS = 1-4 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 130

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503980

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland                      \* Thymus

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Minimal
* Bone		Hyperostosis	Mild
Note: There was hyperostosis of the tail vertebra with degeneration of cartilage.			
Note: The tail was affected.			
[ Hyperostosis TGLS = 1-10 ]			
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2-4; 3-3; 4-9 ]			
* Skin	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate
	SOA	Ulcer	Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 131      **TRT#:** 5      **SEX:** Male      **DAY ON TEST:** 676  
**DOSE:** 30 MG/KG      **DISP:** Moribund Sacrifice      **HISTO:** 9503981

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Mammary Gland	* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 1-9 ]		
* Lung		Hepatocholangiocarcinoma	Metastatic (Liver)
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

**PRIMARY CAUSE OF DEATH**      - Liver    Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 132

**TRT#:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 94  
**HISTO:** 9503982

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**OBSERVATIONS**

\* Skin

Epidermis, SOA  
SOA, Sebaceous GI  
Dermis, SOA  
Epidermis, SOA  
SOA

Hyperplasia  
Hyperplasia  
Inflammation  
Parakeratosis  
Ulcer

Mild  
Minimal  
Chronic Active, Mild  
Minimal  
Minimal

[ Hyperplasia TGLS = 1-2 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 133

**TRT#:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 94  
**HISTO:** 9503983

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**OBSERVATIONS**

\* Skin

SOA  
Epidermis, SOA  
SOA, Sebaceous GI  
Dermis, SOA

Hyperkeratosis  
Hyperplasia  
Hyperplasia  
Inflammation

Minimal  
Mild  
Minimal  
Chronic Active, Minimal

[ Hyperplasia TGLS = 1-2 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 134

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503984

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Cyst	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
[ Cyst TGLS = 2-9 ]			
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-4 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 135

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503985

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

* Lymph Node, Mesenteric	* Mammary Gland
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**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hemangiosarcoma	
	[ Clear Cell Focus TGLS = 2-9 ]		
	[ Eosinophilic Focus TGLS = 3-9 ]		
	[ Hemangiosarcoma TGLS = 1-3 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 136

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503986

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 3-4; 4-3 ]			
* Preputial Gland		Cyst	Minimal
		Inflammation	Chronic Active, Moderate
[ Cyst TGLS = 2-8 ]			
[ Inflammation TGLS = 2-8 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Mild
		Mineralization	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 137      **TRT#:** 5      **SEX:** Male      **DAY ON TEST:** 691  
**DOSE:** 30 MG/KG      **DISP:** Moribund Sacrifice      **HISTO:** 9503987

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

Eye [ Degeneration TGLS = 2-10 ]	Cornea	Degeneration	Minimal
Harderian Gland [ Adenoma TGLS = 1-10 ]		Adenoma	
* Intestine Small, Jejunum [ Hyperplasia TGLS = 3-9 ]	Peyers Patch	Hyperplasia	Lymphoid, Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver  [ Hepatocellular Adenoma TGLS = 6-3 ] [ Hepatocellular Carcinoma TGLS = 5-9 ]		Basophilic Focus Eosinophilic Focus Hepatocellular Adenoma Hepatocellular Carcinoma	
* Lung  [ Alveolar/Bronchiolar Carcinoma TGLS = 4-2 ]	Alveolar Epith	Alveolar/Bronchiolar Carcinoma Hepatocellular Carcinoma Hyperplasia	Metastatic (Liver) Mild
* Skin	SOA	Hyperkeratosis	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 137

**TRT#:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 691  
**HISTO:** 9503987

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**ORGAN AND ACCOUNTABLE SITE STATUS**

Epidermis, SOA  
Dermis, SOA

Hyperplasia  
Inflammation  
Hematopoietic Cell Proliferation

Minimal  
Chronic Active, Minimal  
Mild

\* Spleen

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**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 138

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 638

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9503988

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Necrosis	Minimal
* Skin	Epidermis, SOA	Hyperplasia	Marked
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate
	Epidermis, SOA	Parakeratosis	Moderate
	SOA	Ulcer	Marked
	[ Ulcer TGLS = 1-6,9 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 2-3 ]		
* Testes		Hemangioma	

**PRIMARY CAUSE OF DEATH**

- Skin SOA Ulcer

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 139

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 705

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 9503989

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Necrosis	Moderate
[ Hepatocellular Adenoma TGLS = 1-4 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Hemangioma	

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 140

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 572

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 9503990

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Heart		Hepatocholangiocarcinoma	Metastatic (Liver)
[ Hepatocholangiocarcinoma TGLS = 7-2; 9 ]			
* Kidney		Hepatocholangiocarcinoma	Metastatic (Liver)
[ Hepatocholangiocarcinoma TGLS = 1-3; 2-9; 3-3 ]			
* Liver		Hepatocholangiocarcinoma Necrosis	Minimal
[ Hepatocholangiocarcinoma TGLS = 4-9 ]			
* Lung		Hepatocholangiocarcinoma	Metastatic (Liver)
[ Hepatocholangiocarcinoma TGLS = 5-2; 6-2 ]			
* Lymph Node, Mesenteric		Inflammation	Chronic Active, Moderate
[ Inflammation TGLS = 8-4 ]			
* Skin	SOA	Exudate	Minimal
	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Thymus		Atrophy	Mild

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocholangiocarcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 141

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503991

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Skin	SOA	Hyperkeratosis	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 142

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503992

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
	[ Basophilic Focus TGLS = 2-3 ]		
	[ Hepatocellular Adenoma TGLS = 1-4 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	[ Hyperplasia TGLS = 4-2A ]		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 3-9 ]		
* Preputial Gland		Inflammation	Mild
* Skin		Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Parakeratosis	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 142

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503992

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 143

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503993

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
[ Eosinophilic Focus TGLS = 1-4 ]			
* Skin	Dermis, SOA	Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 144

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503994

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		[ Eosinophilic Focus TGLS = 3-9 ]	
		[ Hepatocellular Adenoma TGLS = 2-3 ]	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Preputial Gland		Cyst	Minimal
		Inflammation	Chronic Active, Minimal
		[ Cyst TGLS = 1-8 ]	
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 145

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503995

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 1-3 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Minimal
	[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2 ]		
* Skin	SOA	Exudate	Mild
	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Parakeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus	Epithel Cell	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 146

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503996

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
		Necrosis	Minimal
	[ Hepatocellular Carcinoma TGLS = 2-9 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
	[ Alveolar/Bronchiolar Carcinoma TGLS = 3-2 ]		
* Lymph Node, Mesenteric		Angiectasis	Mild
Mesentery		Necrosis	Focal, Mild
	[ Necrosis TGLS = 1-9 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 147

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 606

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9503997

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Necrosis	Minimal
Note: One adenoma was infarcted.			
[ Hepatocellular Adenoma TGLS = 2-3; 3-9 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate
	SOA	Ulcer	Moderate
[ Ulcer TGLS = 1-9 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 4-3 ]			
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicular Cel	Adenoma	

**PRIMARY CAUSE OF DEATH**

- Skin SOA Ulcer

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 148

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503998

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
	SOA	Ulcer	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 149

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9503999

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
		Hypertrophy	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
		[ Clear Cell Focus TGLS = 2-9 ]	
		[ Hepatocellular Adenoma TGLS = 1-9; 3-4, 10 ]	
* Skin	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 150

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504000

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 1-3; 3-4 ]		
	[ Hepatocellular Carcinoma TGLS = 2-9 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 151

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504001

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 2-9; 3-9; 4-9 ]		
	[ Hepatocellular Carcinoma TGLS = 1-10 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 5-11 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 152

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504002

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Nose	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Mixed Cell Focus	
	[ Hepatocellular Adenoma TGLS = 1-9 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Hyperplasia	Lymphoid, Mild
	[ Hyperplasia TGLS = 2-3 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 153

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504003

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Mild
* Kidney		Cyst	Mild
[ Cyst TGLS = 1-9 ]			
* Liver		Clear Cell Focus	Multiple
		Hepatocellular Adenoma	
		Mixed Cell Focus	Multiple
[ Clear Cell Focus TGLS = 2-9 ]			
[ Hepatocellular Adenoma TGLS = 3-3 ]			
[ Mixed Cell Focus TGLS = 3-3 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Hyperplasia	Mild
		Inflammation	Suppurative, Mild
[ Hyperplasia TGLS = 4-10 ]			
* Thyroid Gland		Cyst	Minimal
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 153

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504003

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 154

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504004

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Mixed Cell Focus	Multiple
	[ Mixed Cell Focus TGLS = 1-3; 2-9; 3-9 ]		
* Skin	SOA	Exudate	Minimal
	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 155

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504005

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Mammary Gland	* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	Multiple
	[ Eosinophilic Focus TGLS = 2-9,3-3,4-10 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 1-9 ]		
* Skin	SOA	Exudate	Minimal
	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 156

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504006

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Cyst	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
[ Cyst TGLS = 3-10 ]			
* Liver		Clear Cell Focus	Multiple
		Eosinophilic Focus	
		Hepatocellular Adenoma	
[ Clear Cell Focus TGLS = 4-9 ]			
[ Eosinophilic Focus TGLS = 5-9 ]			
[ Hepatocellular Adenoma TGLS = 2-4 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 1-2 ]			
* Skin		Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 156

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504006

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Dermis, SOA

Inflammation

Chronic Active, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 157

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 549

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504007

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Skin	Fibrosarcoma	
	SOA	Mild
	Epidermis, SOA	Mild
	SOA, Sebaceous GI	Minimal
	Dermis, SOA	Chronic Active, Mild

[ Fibrosarcoma TGLS = 1-9 ]

**PRIMARY CAUSE OF DEATH**

- Skin Fibrosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 158

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504008

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Mineralization	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 2-2, 4 ]			
* Preputial Gland		Cyst	Minimal
[ Cyst TGLS = 1-8 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 159

**TRT#:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 94  
**HISTO:** 9504009

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**OBSERVATIONS**

\* Skin

SOA  
Epidermis, SOA  
SOA, Sebaceous GI  
Dermis, SOA  
Epidermis, SOA  
Epidermis, SOA

Hyperkeratosis  
Hyperplasia  
Hyperplasia  
Inflammation  
Inflammation  
Parakeratosis

Minimal  
Mild  
Minimal  
Chronic Active, Mild  
Suppurative, Minimal  
Minimal

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[ Hyperplasia TGLS = 1-1+2 ]

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 160      **TRT#:** 5      **SEX:** Male      **DAY ON TEST:** 468  
**DOSE:** 30 MG/KG      **DISP:** Moribund Sacrifice      **HISTO:** 9504010

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Mineralization	Mild
		Vacuolization Cytoplasmic	Mild
[ Vacuolization Cytoplasmic TGLS = 3-3 ]			
* Liver		Hemangiosarcoma	Multiple
		Necrosis	Mild
[ Hemangiosarcoma TGLS = 1-9; 2-10 ]			
* Lung		Hemangiosarcoma	Metastatic (Spleen)
* Skin	SOA	Hyperkeratosis	Moderate
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-10 ]			
* Thymus		Atrophy	Mild

**PRIMARY CAUSE OF DEATH**      - Spleen Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 161

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 416

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504011

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Mild
* Liver		Vacuolization Cytoplasmic	Mild
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Thymus		Atrophy	Mild

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 162

**TRT#:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 94  
**HISTO:** 9504012

---

**OBSERVATIONS**

\* Skin

SOA  
Epidermis, SOA  
SOA, Sebaceous GI  
Dermis, SOA  
Epidermis, SOA

Hyperkeratosis  
Hyperplasia  
Hyperplasia  
Inflammation  
Parakeratosis

Minimal  
Mild  
Minimal  
Chronic Active, Mild  
Minimal

[ Hyperplasia TGLS = 1-2 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 163

**TRT#:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 94  
**HISTO:** 9504013

---

**OBSERVATIONS**

\* Skin

SOA  
Epidermis, SOA  
SOA, Sebaceous GI  
Dermis, SOA  
Epidermis, SOA

Hyperkeratosis  
Hyperplasia  
Hyperplasia  
Inflammation  
Parakeratosis

Minimal  
Mild  
Minimal  
Chronic Active, Minimal  
Minimal

---

[ Hyperplasia TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 164

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 638

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504014

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

Harderian Gland		Adenoma	
[ Adenoma TGLS = 2-9 ]			
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Parakeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
[ Hematopoietic Cell Proliferation TGLS = 1-3 ]			
[ Hyperplasia TGLS = 1-3 ]			

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 165

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504015

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Nose	* Pancreas	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
		Mixed Cell Focus	Multiple
	[ Hepatocellular Carcinoma TGLS = 2-9 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 3-9 ]		
* Lymph Node, Mesenteric		Angiectasis	Mild
* Preputial Gland		Cyst	Minimal
	[ Cyst TGLS = 1-8 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 91014-04  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Oleic acid diethanolamine condensate  
CAS Number: 93-83-4

Date Report Requested: 10/17/2014  
Time Report Requested: 21:05:05  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 166

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9504016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Liver		Eosinophilic Focus	Multiple
		Hepatocellular Adenoma	Multiple
			[ Eosinophilic Focus TGLS = 3-10; 4-11; 5-8 ]
			[ Hepatocellular Adenoma TGLS = 1-9; 3-10; 5-8 ]
Oviduct		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
			[ Adenoma TGLS = 2-7 ]
			[ Angiectasis TGLS = 2-7 ]
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 167

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 562

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504017

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Heart	Pericardium	Inflammation	Chronic Active, Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Carcinoma	
[ Eosinophilic Focus TGLS = 6-3 ]			
[ Hepatocellular Carcinoma TGLS = 2-2, 9 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
[ Hepatocellular Carcinoma TGLS = 3-8; 4-8; 5-2 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 1-8 ]			
* Ovary		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 168

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504018

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Adrenal Cortex	Zona Fascult	Vacuolization Cytoplasmic	Moderate
* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-7 ]			
* Spleen		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 3-3 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
[ Hyperplasia TGLS = 2-2 ]		Inflammation	Chronic Active, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 169

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 578

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9504019

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Clitoral Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Islets, Pancreatic	Hyperplasia	Moderate
* Liver	Eosinophilic Focus	Multiple
	Hepatoblastoma	
	Hepatocellular Adenoma	Multiple
[ Eosinophilic Focus TGLS = 5-3 ]		
[ Hepatoblastoma TGLS = 4-9 ]		
[ Hepatocellular Adenoma TGLS = 5-3; 7-9; 8-9 ]		
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 6-8 ]		
Mesentery	Necrosis	Mild
[ Necrosis TGLS = 3-8 ]		
* Ovary	Cystadenoma	
* Spleen	Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Cystic, Mild
[ Hyperplasia TGLS = 2-6 ]		

**PRIMARY CAUSE OF DEATH**

- Liver Hepatoblastoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 170

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504020

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
[ Eosinophilic Focus TGLS = 3-4 ]			
[ Hepatocellular Adenoma TGLS = 4-8 ]			
* Ovary	Follicle	Cyst	Mild
[ Cyst TGLS = 1-6 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 171

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 9504021

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Gallbladder	* Heart
* 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	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Clitoral Gland

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Mild
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 1-8 ]			
* Ovary	Follicle	Cyst	Mild
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 2-9 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 172

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504022

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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		

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[ Eosinophilic Focus TGLS = 2-8 ]		
	[ Hepatocellular Adenoma TGLS = 1-8 ]		
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 173

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504023

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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			

**OBSERVATIONS**

* Bone		Arthrosis	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 174

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 435

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9504024

**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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**AUTO PRECLUDES DIAG.**

\* Gallbladder

**OBSERVATIONS**

* Heart	Mineralization	Mild
* Kidney	Accumulation, Hyaline Droplet	Moderate
* Liver	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 4-3, 4 ]		
* Lung	Histiocytic Sarcoma	
* Ovary	Hemorrhage	Moderate
	Histiocytic Sarcoma	
[ Hemorrhage TGLS = 3-6 ]		
* Spleen	Hematopoietic Cell Proliferation	Mild
* Thymus	Atrophy	Moderate
* Uterus	Histiocytic Sarcoma	

**PRIMARY CAUSE OF DEATH**

- Liver Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 175

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504025

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 1-2, 3, 4 ]			
Lymph Node	Lumbar	Histiocytic Sarcoma	
	Lumbar	Hyperplasia	Histiocytic, Moderate
[ Hyperplasia TGLS = 3-8 ]			
* Pituitary Gland		Hypertrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 5-9 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Cervix	Histiocytic Sarcoma	
	Endometrium	Hyperplasia	Cystic, Mild
[ Histiocytic Sarcoma TGLS = 4-8 ]			
[ Hyperplasia TGLS = 2-6 ]			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 176

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 654  
**HISTO:** 9504026

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* 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
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Gallbladder

**AUTO PRECLUDES DIAG.**

\* Islets, Pancreatic                      \* Pancreas

**OBSERVATIONS**

* Adrenal Cortex [ Angiectasis TGLS = 2-7 ]		Angiectasis	Moderate
* Bone Marrow		Leukemia Granulocytic	
* Heart	Pericardium	Inflammation	Chronic Active, Moderate
		Leukemia Granulocytic	
* Kidney		Leukemia Granulocytic	
* Liver		Leukemia Granulocytic	
		Necrosis	Moderate
		[ Leukemia Granulocytic TGLS = 3-3, 4 ]	
* Lung		Leukemia Granulocytic	
* Lymph Node, Mandibular [ Leukemia Granulocytic TGLS = 4-1 ]		Leukemia Granulocytic	
* Lymph Node, Mesenteric [ Leukemia Granulocytic TGLS = 6-4 ]		Leukemia Granulocytic	
* Spleen [ Leukemia Granulocytic TGLS = 1-8 ]		Leukemia Granulocytic	
* Stomach, Forestomach		Hyperkeratosis	Mild
* Thymus [ Leukemia Granulocytic TGLS = 5-7 ]		Leukemia Granulocytic	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 176

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 654  
**HISTO:** 9504026

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

Leukemia Granulocytic

---

PRIMARY CAUSE OF DEATH

- Bone Marrow Leukemia Granulocytic

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 177

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504027

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Liver		Clear Cell Focus Hepatocellular Adenoma	
[ Clear Cell Focus TGLS = 1-3 ]			
[ Hepatocellular Adenoma TGLS = 3-4 ]			
Mesentery		Necrosis	Mild
[ Necrosis TGLS = 2-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Mild
[ Adenoma TGLS = 5-7 ]			
[ Angiectasis TGLS = 5-7 ]			
* Stomach, Forestomach		Squamous Cell Carcinoma	
[ Squamous Cell Carcinoma TGLS = 4-8 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 178

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 9504028

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 3-8 ]		
* Stomach, Forestomach		Squamous Cell Papilloma	Multiple
	[ Squamous Cell Papilloma TGLS = 2-9; 9A ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Sarcoma Stromal	
	[ Sarcoma Stromal TGLS = 1-8 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 179

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 719  
**HISTO:** 9504029

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Gallbladder	* 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
* Trachea	* Urinary Bladder		

**MISSING**

\* Clitoral Gland                      \* Thymus

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Necrosis	Mild
[ Eosinophilic Focus TGLS = 2-4 ]			
[ Hepatocellular Adenoma TGLS = 4-9; 5-8 ]			
Mesentery		Sarcoma	
[ Sarcoma TGLS = 3-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular		Sarcoma	Metastatic (Mesentery)
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-6 ]			

**PRIMARY CAUSE OF DEATH**                      - Mesentery    Sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 180

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504030

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 1-8 ]		Adenoma	
* Heart	Artery	Inflammation	Chronic Active, Mild
* Liver		Eosinophilic Focus	Multiple
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 181

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504031

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

**MISSING**

\* Thymus

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Adenoma TGLS = 3-9; 4-9; 5-8 ]		
	[ Hepatocellular Carcinoma TGLS = 1-3; 2-8 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Ovary		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 182

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504032

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Clitoral Gland

**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-8 ]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 183

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504033

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Islets, Pancreatic [ Adenoma TGLS = 6-8 ]		Adenoma	
* Liver [ Hepatocellular Adenoma TGLS = 3-3; 4-8 ]		Hepatocellular Adenoma Lymphoma Malignant	Multiple
Mesentery [ Necrosis TGLS = 1-8 ]	Fat	Necrosis	Mild
* Pancreas		Lymphoma Malignant	
* Pituitary Gland [ Hyperplasia TGLS = 5-7 ]	Pars Distalis	Hyperplasia	Mild
* Spleen [ Lymphoma Malignant TGLS = 2-3 ]		Lymphoma Malignant	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 184

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504034

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Uterus	Endometrium	Hyperplasia	Cystic, Mild
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 185

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504035

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Liver		Hepatocellular Adenoma Hepatocellular Carcinoma	Multiple
[ Hepatocellular Adenoma TGLS = 2-8; 3-2, 4 ]			
[ Hepatocellular Carcinoma TGLS = 1-3 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 4-8 ]			
* Spleen		Hematopoietic Cell Proliferation Hyperplasia	Mild Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 186

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504036

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Mixed Cell Focus	
[ Eosinophilic Focus TGLS = 2-2 ]			
* Ovary	Follicle	Cyst	Mild
		Cystadenoma	
[ Cyst TGLS = 1-6 ]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 187	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9504037

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

\* Parathyroid Gland

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**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Mild
* Liver		Hepatocellular Adenoma	
		Mixed Cell Focus	
	[ Hepatocellular Adenoma TGLS = 2-2, 4 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 188

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 675

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504038

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Thymus

**OBSERVATIONS**

* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	SOA	Fibrosarcoma	
[ Fibrosarcoma TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

- Skin SOA Fibrosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 189

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504039

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Mild
Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-8 ]			
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver	Bile Duct	Cyst	Mild
[ Cyst TGLS = 2-3 ]		Eosinophilic Focus	
[ Eosinophilic Focus TGLS = 3-8 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 190

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504040

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Benign	
[ Pheochromocytoma Benign TGLS = 1-7 ]			
* Liver		Cyst	Mild
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
[ Cyst TGLS = 3-4 ]			
[ Hepatocellular Adenoma TGLS = 2-2, 8; 3-4 ]			
[ Mixed Cell Focus TGLS = 4-8 ]			
* Ovary	Follicle	Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 191

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504041

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Liver		Eosinophilic Focus	
[ Eosinophilic Focus TGLS = 2-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-7 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 192

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504042

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Mild
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-3 ]			
* Ovary	Follicle	Cyst	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Fibrosis	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 193

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504043

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2-3; 3-8; 5-8 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 1-8 ]			
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[ Angiectasis TGLS = 4-7 ]			
[ Hyperplasia TGLS = 4-7 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 194

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 94

**DOSE:** 0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9504044

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 195

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504045

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 3-4 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-8 ]			
* Skin		Fibrosarcoma	
[ Fibrosarcoma TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 196

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504046

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Spleen	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 1-8; 2-3 ]			
* Stomach, Glandular		Cyst	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 197

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 660

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504047

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
Peripheral Nerve	* Salivary Glands	* Skin	Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Heart		Mineralization	Mild
* Kidney		Mineralization	Mild
* Liver		Hepatocellular Adenoma	
Note: The tumor was necrotic. [ Hepatocellular Adenoma TGLS = 1-4 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-7 ]			
* Thymus		Atrophy	Moderate

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 198

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 94

**DOSE:** 0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9504048

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 199

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 94

**DOSE:** 0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9504049

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 200

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 94

**DOSE:** 0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9504050

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

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**OBSERVATIONS**

\* Ovary

Follicle

Cyst

Moderate

[ Cyst TGLS = 1-2 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 201

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 9504051

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Parathyroid Gland                      \* Thymus

**OBSERVATIONS**

* Heart		Mineralization	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	Multiple
	[ Hepatocellular Adenoma TGLS = 3-3, 4, 9 ]		
	[ Mixed Cell Focus TGLS = 3-9 ]		
* Mammary Gland		Hyperplasia	Cystic, Mild
		Inflammation	Acute, Mild
	[ Hyperplasia TGLS = 4-8 ]		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 1-9 ]		
* Ovary	Periovarn Tiss	Angiectasis	Mild
		Atrophy	Moderate
	[ Angiectasis TGLS = 2-6 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 5-7 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 201

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 9504051

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 202

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504052

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

**MISSING**

\* Thymus

**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 3-3; 4-3, 8; 5-4; 6-9 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 1-2 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-8 ]			
* Ovary	Follicle	Cyst	Moderate
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 203

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 603

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9504053

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Heart		Lymphoma Malignant	
* Kidney		Accumulation, Hyaline Droplet	Mild
* Liver		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
Lymph Node	Lumbar	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 4-8 ]	
		[ Lymphoma Malignant TGLS = 3-9 ]	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
		Note: The lymphoma was of the mixed cell type.	
		[ Lymphoma Malignant TGLS = 2-4 ]	
* Ovary	Follicle	Cyst	Minimal
	Periovarn Tiss	Lymphoma Malignant	
		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 1-3 ]	
* Thymus		Atrophy	Moderate
* Thyroid Gland		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 203

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 603

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9504053

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Lymph Node, Mesenteric Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 204

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504054

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Liver		Hepatocellular Adenoma	
		Mixed Cell Focus	
[ Hepatocellular Adenoma TGLS = 1-3 ]			
[ Mixed Cell Focus TGLS = 2-8 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Uterus		Adenocarcinoma	

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 205

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 683  
**HISTO:** 9504055

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Liver		Eosinophilic Focus	Multiple
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Lymphoma Malignant	
	[ Eosinophilic Focus TGLS = 9-3, 9 ]		
	[ Hepatocellular Adenoma TGLS = 7-8; 8-4 ]		
	[ Hepatocellular Carcinoma TGLS = 10-10 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Lymphoma Malignant	
	[ Hepatocellular Carcinoma TGLS = 2-8; 3-9; 4-10; 5-11 ]		
* Ovary		Atrophy	Mild
	Periovarn Tiss	Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 1-3 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Lymphoma Malignant	
	[ Hyperplasia TGLS = 6-6 ]		

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 205

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 683

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504055

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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CONTRIBUTORY CAUSE OF DEATH

- Spleen Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 206

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 9504056

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* 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	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Bone Marrow		Hemangiosarcoma	
* Liver		Clear Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular		Inflammation	Acute, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 207

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 621  
**HISTO:** 9504057

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Thymus

**OBSERVATIONS**

Blood Vessel	Aorta	Mineralization	Marked
* Bone Marrow		Hyperplasia	Mild
Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-8 ]			
* Kidney	Pelvis	Dilatation	Moderate
	Renal Tubule	Dilatation	Moderate
		Mineralization	Mild
[ Dilatation TGLS = 5-3 ]			
[ Dilatation TGLS = 6-3 ]			
* Liver		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 3-3 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Inflammation	Acute, Mild
		Polyp Stromal	
[ Hyperplasia TGLS = 2-6 ]			

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 208

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504058

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* 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		

**OBSERVATIONS**

* Bone		Fibrous Osteodystrophy	Minimal
* Bone Marrow		Myelofibrosis	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 209

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 682  
**HISTO:** 9504059

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

Blood Vessel	Aorta	Mineralization	Marked
* Bone Marrow		Myelofibrosis	Mild
* Heart	Artery	Mineralization	Mild
		Mineralization	Minimal
* Kidney	Renal Tubule	Dilatation	Moderate
		Mineralization	Mild
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
[ Clear Cell Focus TGLS = 3-3 ]			
[ Hepatocellular Adenoma TGLS = 1-8;2-4 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 4-8 ]			

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 210

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 721

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9504060

**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, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

* Lymph Node, Mandibular	* Thymus
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**AUTO PRECLUDES DIAG.**

* Gallbladder	* Intestine Small, Ileum
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**OBSERVATIONS**

* Kidney	Mineralization	Minimal
* Liver	Mixed Cell Focus	Multiple

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 211

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 9504061

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Nose	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Intestine Small, Jejunum [ Hyperplasia TGLS = 2-8 ]	Peyers Patch	Hyperplasia	Moderate
* Liver [ Hepatocellular Adenoma TGLS = 1-4; 3-3 ] [ Mixed Cell Focus TGLS = 4-9 ]		Eosinophilic Focus Hepatocellular Adenoma Mixed Cell Focus	Multiple
* Ovary		Atrophy	Mild
* Pancreas	Duct	Cyst	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 212

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504062

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 213

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 150

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9504063

**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, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

* Intestine Small, Duodenum	* Parathyroid Gland
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**AUTO PRECLUDES DIAG.**

\* Gallbladder

**OBSERVATIONS**

* Ovary	Cystadenoma	
[ Cystadenoma TGLS = 1-6 ]		
* Thymus	Atrophy	Moderate

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 214

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 9504064

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-3 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 215

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 562

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504065

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Salivary Glands	* Skin	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Bone	Femur	Fibrous Osteodystrophy	Moderate
	Maxilla	Fibrous Osteodystrophy	Moderate
	Vertebra	Fibrous Osteodystrophy	Moderate
* Bone Marrow		Myelofibrosis	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Renal Tubule	Dilatation	Mild
		Mineralization	Minimal
[ Dilatation TGLS = 1-3 ]			
Skeletal Muscle		Osteosarcoma	
[ Osteosarcoma TGLS = 2-12 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Mild

**PRIMARY CAUSE OF DEATH**

- Bone Vertebra Fibrous Osteodystrophy

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 216

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 471

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9504066

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Lymph Node, Mesenteric	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney		Accumulation, Hyaline Droplet	Mild
* Liver		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 2-4; 3-8; 4-8 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Ovary		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 5-6 ]			
* Skin		Histiocytic Sarcoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 1-6 ]			

**PRIMARY CAUSE OF DEATH**

- Liver Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 217

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504067

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Pituitary Gland	Pars Distalis	Adenoma
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[ Adenoma TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 218

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 94

**DOSE:** 0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9504068

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 219

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 615  
**HISTO:** 9504069

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* 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	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

**MISSING**

\* Parathyroid Gland                      \* Thymus

**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	
Note: The hepatic adenoma was necrotic. [ Hepatocellular Adenoma TGLS = 2-8 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 1-2 ]			
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 3-6 ]			

**PRIMARY CAUSE OF DEATH**                      - Liver    Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 220

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 9504070

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Benign	
* Liver		Eosinophilic Focus	
[ Eosinophilic Focus TGLS = 4-8 ]			
* Lymph Node, Mandibular		Hemangioma	
[ Hemangioma TGLS = 1-1 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
Tongue		Squamous Cell Papilloma	
Note: The stroma of the squamous cell papilloma was mineralized.			
[ Squamous Cell Papilloma TGLS = 2-8 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 221

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504071

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Kidney		Mineralization	Minimal
* Liver		Eosinophilic Focus	Multiple
		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 1-8; 2-9; 3-8; 4-9 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 222

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504072

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Liver		Ito Cell Tumor Benign Necrosis	Multiple Mild
Note: The Ito cell tumor had infiltrated between hepatocytes. [ Ito Cell Tumor Benign TGLS = 3-3; 4-8; 5-9 ] [ Necrosis TGLS = 6-4 ]			
* Ovary	Follicle	Cyst	Mild
[ Cyst TGLS = 2-6 ]			
* Skin	SOA Epidermis, SOA SOA, Sebaceous GI Dermis, SOA	Hyperkeratosis Hyperplasia Hyperplasia Inflammation	Minimal Mild Mild Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Hemangioma	
[ Hemangioma TGLS = 1-8 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 223

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 704

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504073

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* 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	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Stomach, Glandular	* Thyroid Gland	* Trachea

**OBSERVATIONS**

* Adrenal Cortex		Lymphoma Malignant	
* Bone Marrow		Lymphoma Malignant	
* Gallbladder		Lymphoma Malignant	
* Heart		Lymphoma Malignant	
* Kidney		Accumulation, Hyaline Droplet	Mild
		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 8-3 ]			
* Liver		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
Lymph Node	Lumbar	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-8 ]			
[ Lymphoma Malignant TGLS = 5-7 ]			
[ Lymphoma Malignant TGLS = 7-10 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-1 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 223

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 704

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504073

**ORGAN AND ACCOUNTABLE SITE STATUS**

Dermis, SOA

Inflammation

Chronic Active, Minimal

\* Spleen

Lymphoma Malignant

Note: The splenic mass was necrotic.

[ Lymphoma Malignant TGLS = 1-3; 9-9 ]

\* Stomach, Forestomach

Lymphoma Malignant

\* Thymus

Lymphoma Malignant

\* Urinary Bladder

Lymphoma Malignant

\* Uterus

Lymphoma Malignant

Polyp Stromal

[ Polyp Stromal TGLS = 2-6 ]

Vagina

Lymphoma Malignant

[ Lymphoma Malignant TGLS = 3-11 ]

PRIMARY CAUSE OF DEATH

- Lymph Node, Mesenteric Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 224

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 641

**DOSE:** 15 MG/KG

**DISP:** Natural Death

**HISTO:** 9504074

**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	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**AUTO PRECLUDES DIAG.**

\* Gallbladder

**OBSERVATIONS**

* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	[ Eosinophilic Focus TGLS = 5-4 ]		
	[ Hepatocellular Adenoma TGLS = 2-3; 3-9; 4-8 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 6-3 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Polyp Stromal	
	[ Hyperplasia TGLS = 1-6 ]		
	[ Polyp Stromal TGLS = 1-6 ]		

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 225

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 616

**DOSE:** 15 MG/KG

**DISP:** Natural Death

**HISTO:** 9504075

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2-3, 8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 226

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504076

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 3-3 ]			
Mesentery		Necrosis	Mild
[ Necrosis TGLS = 1-8 ]			
* Ovary	Follicle	Cyst	Mild
[ Cyst TGLS = 2-6 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 227

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 711

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504077

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 3-8 ]		
	[ Hepatocellular Carcinoma TGLS = 2-8 ]		
* Ovary		Cystadenoma	
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 1-3 ]		
* Thymus		Atrophy	Mild
* Thyroid Gland		Atrophy	Mild

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 228

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504078

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Thymus

**OBSERVATIONS**

* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 6-8 ]	Peyers Patch	Lymphoma Malignant	
* Liver [ Eosinophilic Focus TGLS = 5-3 ] [ Hepatocellular Adenoma TGLS = 2-4;3-8;4-8 ]		Eosinophilic Focus Hepatocellular Adenoma	Multiple
* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 7-4 ]		Lymphoma Malignant	
* Skin	SOA Epidermis, SOA SOA, Sebaceous GI	Hyperkeratosis Hyperplasia Hyperplasia	Minimal Minimal Minimal
* Spleen [ Lymphoma Malignant TGLS = 1-3 ]		Lymphoma Malignant	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 229

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 445

**DOSE:** 15 MG/KG

**DISP:** Natural Death

**HISTO:** 9504079

**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	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**AUTO PRECLUDES DIAG.**

\* Gallbladder

**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Minimal

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 230

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 624

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504080

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Cyst	Mild
[ Cyst TGLS = 2-3 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Mild
[ Hyperkeratosis TGLS = 3-8 ]			
[ Hyperplasia TGLS = 3-8 ]			

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 231

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504081

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Kidney		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-8 ]			
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 1-8,2-3,9 ]		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 4-4 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 232      **TRT#:** 4      **SEX:** Female      **DAY ON TEST:** 730  
**DOSE:** 15 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 9504082

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	Multiple
[ Hepatocellular Adenoma TGLS = 3-8; 4-9; 5-4, 8; 6-9 ]			
[ Mixed Cell Focus TGLS = 5-8 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-8 ]			
* Ovary	Follicle	Cyst	Moderate
[ Cyst TGLS = 1-6 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 233

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 646

**DOSE:** 15 MG/KG

**DISP:** Natural Death

**HISTO:** 9504083

**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	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**AUTO PRECLUDES DIAG.**

\* Gallbladder

**OBSERVATIONS**

* Bone Marrow		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Liver		Hepatocellular Carcinoma	Multiple
[ Hepatocellular Carcinoma TGLS = 3-8; 8-9 ]			
* Lung		Lymphoma Malignant	
Lymph Node	Pancreatic	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-4 ]		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-1 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-8 ]			
* Ovary		Lymphoma Malignant	
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-3 ]			
* Thymus		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 7-7 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 233

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 646

**DOSE:** 15 MG/KG

**DISP:** Natural Death

**HISTO:** 9504083

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

[ Hyperplasia TGLS = 1-6 ]

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PRIMARY CAUSE OF DEATH

- Lymph Node, Mesenteric Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 234

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 662

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504084

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Kidney		Pigmentation	Mild
* Liver		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 3-4 ]			
* Ovary		Teratoma Benign	
[ Teratoma Benign TGLS = 1-8 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-3 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 235

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504085

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* 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	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Mild
Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-8 ]			
* Islets, Pancreatic		Carcinoma	
[ Carcinoma TGLS = 3-8 ]			
* Liver		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 4-4 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus		Leiomyoma	
[ Leiomyoma TGLS = 2-6 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 236

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 501

**DOSE:** 15 MG/KG

**DISP:** Natural Death

**HISTO:** 9504086

**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	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Intestine Small, Jejunum

**AUTO PRECLUDES DIAG.**

\* Gallbladder

**OBSERVATIONS**

* Heart		Inflammation	Suppurative, Moderate
		Thrombosis	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[ Eosinophilic Focus TGLS = 3-4 ]		
	[ Hepatocellular Adenoma TGLS = 4-3 ]		
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 2-3 ]		
* Thymus		Atrophy	Moderate
* Uterus		Cyst	Moderate
	[ Cyst TGLS = 1-6 ]		

**PRIMARY CAUSE OF DEATH**

- Heart Thrombosis

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 237

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 94

**DOSE:** 15 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9504087

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**OBSERVATIONS**

\* Skin

Epidermis, SOA  
SOA, Sebaceous GI

Hyperplasia  
Hyperplasia

Minimal  
Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 238

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504088

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Liver		Eosinophilic Focus Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-8 ]			
* Ovary	Follicle	Cyst	Minimal
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-3 ]			
* Stomach, Forestomach		Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 239

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504089

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 1-4; 2-8 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 240

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504090

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-8 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 1-6 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 241

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504091

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2-3, 8; 3-4 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 1-2 ]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Pancreas		Basophilic Focus	
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 242

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 94

**DOSE:** 15 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9504092

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**OBSERVATIONS**

\* Skin

Epidermis, SOA  
SOA, Sebaceous GI  
Dermis, SOA

Hyperplasia  
Hyperplasia  
Inflammation

Minimal  
Minimal  
Chronic Active, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 243

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 639

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504093

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pituitary Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Nephropathy	Moderate
[ Nephropathy TGLS = 1-3 ]			
* Liver		Eosinophilic Focus	Multiple
[ Eosinophilic Focus TGLS = 3-8; 4-9 ]		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 2-8 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 244

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504094

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	Multiple
		Hepatocellular Adenoma	Multiple
	[ Clear Cell Focus TGLS = 3-8 ]		
	[ Hepatocellular Adenoma TGLS = 2-4; 4-9; 5-8; 6-3 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 7-7 ]		
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Moderate
	[ Hematopoietic Cell Proliferation TGLS = 1-3 ]		
	[ Hyperplasia TGLS = 1-3 ]		
* Thymus		Hyperplasia	Lymphoid, Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 245

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504095

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 1-4; 2-3, 8; 3-8 ]			
Lymph Node	Pancreatic	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-4 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 246

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 240

**DOSE:** 15 MG/KG

**DISP:** Natural Death

**HISTO:** 9504096

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Thymus	Atrophy	Mild
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**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 247

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504097

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 1-8 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 248	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 604
	<b>DOSE:</b> 15 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9504098

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* 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
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

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**MISSING**

* Clitoral Gland	* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-9 ]			
* Pituitary Gland	Pars Intermed	Adenoma	
[ Adenoma TGLS = 1-8 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

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**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Intermed Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 249	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 15 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9504099

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

\* Parathyroid Gland

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**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-8 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 1-8 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 250

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504100

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 1-8 ]		Lymphoma Malignant	
* Ovary Note: The cyst contained blood. [ Cyst TGLS = 2-6 ]	Follicle	Cyst	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 251	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 15 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9504101

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

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**MISSING**

* Lymph Node, Mandibular	* Parathyroid Gland
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**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Mild
* Pituitary Gland	Pars Intermed	Adenoma	
[ Adenoma TGLS = 1-7 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 252

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504102

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* 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
* Nose	Oviduct	* Pancreas	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
* Lymph Node, Mandibular		Hyperplasia	Moderate
* Ovary	Follicle	Cyst	Mild
[ Cyst TGLS = 1-6 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 253

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504103

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	Multiple
	[ Hepatocellular Adenoma TGLS = 1-3, 8; 3-8 ]		
	[ Mixed Cell Focus TGLS = 2-8 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 254

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504104

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 2-3 ]		
	[ Hepatocellular Carcinoma TGLS = 1-8 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Ovary	Follicle	Cyst	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Hemangioma	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 255

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 585

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504105

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* 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
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 4-9 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 5-9 ]			
* Ovary	Follicle	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Skin	SOA	Fibrosarcoma	
	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
[ Fibrosarcoma TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-3 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
[ Hyperplasia TGLS = 3-6 ]			

**PRIMARY CAUSE OF DEATH**

- Skin SOA Fibrosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 256

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 584

**DOSE:** 15 MG/KG

**DISP:** Natural Death

**HISTO:** 9504106

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Liver		Hepatocellular Adenoma Mixed Cell Focus	
Note: The tumor was necrotic. [ Hepatocellular Adenoma TGLS = 2-8 ]			
* Skin	Epidermis, SOA Dermis, SOA	Hyperplasia Inflammation Hematopoietic Cell Proliferation	Minimal Chronic Active, Minimal Mild
* Spleen		Atrophy	Mild
* Thymus		Hyperplasia	Cystic, Minimal
* Uterus	Endometrium		
[ Hyperplasia TGLS = 1-6 ]			

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 257

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 704

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504107

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Liver		Basophilic Focus	
		Eosinophilic Focus	Multiple
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
[ Eosinophilic Focus TGLS = 5-4; 6-9 ]			
[ Hepatocellular Adenoma TGLS = 4-8; 7-10 ]			
* Skin		Fibrosarcoma	
	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
[ Fibrosarcoma TGLS = 1-10 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-3 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 2-6 ]			

**PRIMARY CAUSE OF DEATH** - Skin Fibrosarcoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 258

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504108

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* 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	* Pancreas	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Intestine Large, Cecum		Leiomyoma	
[ Leiomyoma TGLS = 2-8 ]			
* Liver		Clear Cell Focus	
* Ovary	Follicle	Cyst	Mild
		Cystadenoma	
[ Cyst TGLS = 1-6 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 259

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504109

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Histiocytic Sarcoma	
	[ Hepatocellular Adenoma TGLS = 2-8 ]		
	[ Hepatocellular Carcinoma TGLS = 1-9 ]		
	[ Histiocytic Sarcoma TGLS = 2-8; 3-10; 4-11 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 260

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 659

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504110

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* 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	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Thymus

**OBSERVATIONS**

* Liver		Eosinophilic Focus	Multiple
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Pigmentation	Mild
	[ Hepatocellular Adenoma TGLS = 4-8; 5-4; 6-9; 7-10 ]		
	[ Hepatocellular Carcinoma TGLS = 2-8; 3-3; ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	[ Hepatocellular Carcinoma TGLS = 8-2 ]		
* Ovary	Follicle	Cyst	Marked
	[ Cyst TGLS = 1-6 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 261

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504111

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Mild
* Kidney		Mineralization	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 1-4; 2-8 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 262	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 15 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9504112

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Pituitary Gland	* Salivary Glands	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

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**MISSING**

\* Parathyroid Gland

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**OBSERVATIONS**

* Kidney		Accumulation, Hyaline Droplet	Mild
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Histiocytic Sarcoma	
	[ Hepatocellular Adenoma TGLS = 1-4 ]		
	[ Histiocytic Sarcoma TGLS = 4-3,4 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 2-3 ]		
* Stomach, Forestomach		Hyperplasia	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLS = 3-8 ]		

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 263

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 94

**DOSE:** 15 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9504113

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**OBSERVATIONS**

\* Skin

SOA

Hyperkeratosis

Minimal

Epidermis, SOA

Hyperplasia

Minimal

SOA, Sebaceous GI

Hyperplasia

Minimal

Dermis, SOA

Inflammation

Chronic Active, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 264

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 94

**DOSE:** 15 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9504114

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**OBSERVATIONS**

\* Skin

Epidermis, SOA  
SOA, Sebaceous GI  
Dermis, SOA

Hyperplasia  
Hyperplasia  
Inflammation

Minimal  
Minimal  
Chronic Active, Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 265

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504115

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Hepatocellular Adenoma	
Note: NO CORRELATING LESIONS FOR TGLS 2-8. [ Hepatocellular Adenoma TGLS = 1-4 ]			
* Ovary	Follicle	Cyst	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thymus		Hyperplasia	Lymphoid, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 266      **TRT#:** 4      **SEX:** Female      **DAY ON TEST:** 659  
**DOSE:** 15 MG/KG      **DISP:** Moribund Sacrifice      **HISTO:** 9504116

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Liver	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

**MISSING**

* Lymph Node, Mesenteric	* Thymus
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**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Accumulation, Hyaline Droplet	Mild
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 6-9 ]			
* Ovary		Hemangioma	
[ Hemangioma TGLS = 2-6 ]			
* Skin	SOA	Fibrosarcoma	
	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
[ Fibrosarcoma TGLS = 5-8, 9 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-3 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 1-6 ]			

**PRIMARY CAUSE OF DEATH** - Skin SOA Fibrosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 267

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504117

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lung
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Glandular	* Trachea	* Urinary Bladder	

**MISSING**

\* Thymus

**OBSERVATIONS**

* Bone		Osteosarcoma	
[ Osteosarcoma TGLS = 1-10 ]			
* Intestine Small, Jejunum	Peyers Patch	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-9 ]			
* Kidney		Lymphoma Malignant	
* Liver		Eosinophilic Focus	Multiple
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Lymphoma Malignant	
[ Hepatocellular Adenoma TGLS = 8-4; 10-8; 11-9; 12-11 ]			
[ Hepatocellular Carcinoma TGLS = 9-3 ]			
[ Lymphoma Malignant TGLS = 8-2, 4 ]			
Lymph Node	Renal	Lymphoma Malignant	
		Lymphoma Malignant	
Note: Lymph nodes along the uterine ligament were affected.			
[ Lymphoma Malignant TGLS = 6-8 ]			
[ Lymphoma Malignant TGLS = 5-11 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
Note: The lymphoma was of the mixed cell type.			
[ Lymphoma Malignant TGLS = 13-4 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 267	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 15 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9504117

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Mammary Gland [ Dilatation TGLS = 7-9 ]		Dilatation	Moderate
* Ovary Note: One ovary was apparently obliterated by the malignant lymphoma. [ Lymphoma Malignant TGLS = 4-6 ]		Lymphoma Malignant	
* Pituitary Gland	Pars Intermed	Adenoma	
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Spleen  [ Lymphoma Malignant TGLS = 2-3 ]		Hematopoietic Cell Proliferation Lymphoma Malignant	Mild
* Stomach, Forestomach [ Squamous Cell Papilloma TGLS = 14-12 ]		Squamous Cell Papilloma	
* Thyroid Gland		Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 268      **TRT#:** 4      **SEX:** Female      **DAY ON TEST:** 730  
**DOSE:** 15 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 9504118

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

**OBSERVATIONS**

* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 6-8 ]	Peyers Patch	Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Liver [ Hepatocellular Adenoma TGLS = 1-4 ]		Hepatocellular Adenoma	
		Lymphoma Malignant	
Lymph Node	Lumbar	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 7-9 ]			
[ Lymphoma Malignant TGLS = 4-8 ]			
[ Lymphoma Malignant TGLS = 8-10 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 5-4 ]		Lymphoma Malignant	
* Ovary	Periovarn Tiss	Lymphoma Malignant	
* Spleen [ Lymphoma Malignant TGLS = 2-3 ]		Lymphoma Malignant	
* Thymus [ Lymphoma Malignant TGLS = 3-7 ]		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 268

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504118

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 269

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 682

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504119

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* 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
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Mild
* Liver		Infarct	Mild
[ Infarct TGLS = 3-8 ]			
* Lung		Osteosarcoma	Metastatic (Uncertain Primary Site)
[ Osteosarcoma TGLS = 4-8 ]			
* Ovary		Teratoma Benign	
[ Teratoma Benign TGLS = 1-9 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Angiectasis	Moderate
[ Angiectasis TGLS = 2-6 ]			

**PRIMARY CAUSE OF DEATH**

- Lung Osteosarcoma Uncertain Primary Site

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 270

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504120

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Intestine Large, Rectum	* Parathyroid Gland
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**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Mild
* Kidney		Nephropathy	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 271

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 677

**DOSE:** 15 MG/KG

**DISP:** Natural Death

**HISTO:** 9504121

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Urinary Bladder			

**MISSING**

* Parathyroid Gland	* Trachea
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**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-4 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 1-6 ]			

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 272

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 682

**DOSE:** 15 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504122

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney		Lymphoma Malignant	
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 2-2, 8 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 3-8 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-8 ]			
* Thymus		Lymphoma Malignant	

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 273

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504123

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

Harderian Gland [ Carcinoma TGLS = 1-8 ]		Carcinoma	
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver  [ Eosinophilic Focus TGLS = 3-8;4-9 ] [ Hepatocellular Adenoma TGLS = 2-9 ]		Eosinophilic Focus Hepatocellular Adenoma	Multiple
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 274

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 94

**DOSE:** 15 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9504124

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**OBSERVATIONS**

\* Skin

SOA

Hyperkeratosis

Minimal

Epidermis, SOA

Hyperplasia

Minimal

SOA, Sebaceous GI

Hyperplasia

Minimal

Dermis, SOA

Inflammation

Chronic Active, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 275

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 15 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504125

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Mild
* Liver		Eosinophilic Focus	Multiple
		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 4-8; 5-3 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 3-8 ]		
Mesentery		Necrosis	Mild
	[ Necrosis TGLS = 2-9 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Minimal
	Pinna	Melanoma Malignant	
	[ Melanoma Malignant TGLS = 1-9 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 276

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 527

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504126

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 277

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504127

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 1-3; 2-8; 3-8 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 4-2 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 278

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504128

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Mild
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
[ Eosinophilic Focus TGLS = 2-8 ]			
[ Hepatocellular Adenoma TGLS = 1-3 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 279      **TRT#:** 6      **SEX:** Female      **DAY ON TEST:** 731  
**DOSE:** 30 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 9504129

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 1-3; 2-8 ]		
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
Lymph Node	Renal	Angiectasis	Mild
	Renal	Hyperplasia	Lymphoid, Moderate
	[ Angiectasis TGLS = 3-8 ]		
	[ Hyperplasia TGLS = 3-8 ]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Ovary	Follicle	Cyst	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Hyperplasia	Lymphoid, Mild
	[ Hyperplasia TGLS = 4-3 ]		
* Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 280

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504130

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
[ Eosinophilic Focus TGLS = 1-8 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 281

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504131

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

**MISSING**

\* Thymus

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	Multiple
Note: NO CORRELATING LESION FOR TGLS 5-9. [ Hepatocellular Adenoma TGLS = 2-2, 4; 3-8; 4-8 ]			
* Ovary	Follicle	Cyst	Mild
			[ Cyst TGLS = 1-6 ]
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 282

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 673

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 9504132

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Liver		Eosinophilic Focus	Multiple
		Hepatocellular Adenoma	Multiple
[ Eosinophilic Focus TGLS = 7-9 ]			
[ Hepatocellular Adenoma TGLS = 2-8; 8-10 ]			
Lymph Node	Lumbar, Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-8; 5-9 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-1 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-10 ]			
* Ovary		Atrophy	Moderate
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-3 ]			
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH** - Lymph Node Lumbar Renal Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 283

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504133

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 1-3 ]			
* Ovary	Follicle	Cyst	Mild
* Skin	SOA	Exudate	Minimal
	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Uterus	Endometrium	Hyperplasia	Minimal
	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 284

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504134

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Liver		Eosinophilic Focus	Multiple
		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 1-9; 2-8 ]			
* Skin	SOA	Exudate	Minimal
	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate
	Epidermis, SOA	Parakeratosis	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 285

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504135

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Bone		Fibrous Osteodystrophy	Minimal
* Bone Marrow		Myelofibrosis	Mild
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 1-8 ]		
	[ Hepatocellular Carcinoma TGLS = 2-9 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Spleen		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 3-3 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 286

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504136

**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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Gallbladder		Lymphoma Malignant	
* Liver		Hepatocellular Adenoma	
		Lymphoma Malignant	
[ Hepatocellular Adenoma TGLS = 2-4 ]			
[ Lymphoma Malignant TGLS = 1-3 ]			
Lymph Node	Pancreatic	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-8 ]			
* Ovary	Follicle	Cyst	Minimal
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-7 ]			
* Uterus	Endometrium	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 287

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 94

**DOSE:** 30 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9504137

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Adrenal Cortex

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**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 288

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504138

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
[ Hepatocellular Adenoma TGLS = 1-8; 2-8 ]			
* Pituitary Gland	Pars Intermed	Adenoma	
[ Adenoma TGLS = 3-7 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 289

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 94

**DOSE:** 30 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9504139

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**OBSERVATIONS**

\* Skin

Epidermis, SOA  
SOA, Sebaceous GI  
Dermis, SOA

Hyperplasia  
Hyperplasia  
Inflammation

Minimal  
Minimal  
Chronic Active, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 290

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504140

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Thymus

**OBSERVATIONS**

* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 4-8 ]	Peyers Patch	Lymphoma Malignant	
* Liver Note: NO CORRELATING LESIONS FOR TGLS 5-8. [ Hepatocellular Adenoma TGLS = 1-3; 2-4 ]		Hepatocellular Adenoma	Multiple
* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 3-4 ]		Lymphoma Malignant	
* Ovary	Follicle	Cyst	Minimal
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus	Endometrium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 291

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504141

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 4-3 ]		
	[ Hepatocellular Carcinoma TGLS = 3-4 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Ovary	Follicle	Cyst	Moderate
	[ Cyst TGLS = 2-6 ]		
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 292

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 9504142

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 2-4; 3-9 ]		
	[ Hepatocellular Carcinoma TGLS = 2-2, 3 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
	[ Alveolar/Bronchiolar Carcinoma TGLS = 5-2 ]		
	[ Hepatocellular Carcinoma TGLS = 6-11; 7-9; 8-10; 9-8 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
	[ Hematopoietic Cell Proliferation TGLS = 1-3 ]		
* Uterus	Endometrium	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 293

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 552

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504143

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Thymus

**OBSERVATIONS**

* Bone Marrow		Histiocytic Sarcoma	
* Kidney		Accumulation, Hyaline Droplet	Mild
		Histiocytic Sarcoma	
* Liver		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLS = 2-2, 3, 4, 8 ]		
* Lung		Histiocytic Sarcoma	
* Ovary	Periovarn Tiss	Cyst	Mild
* Pancreas		Histiocytic Sarcoma	
* Skin	SOA	Hyperkeratosis	Moderate
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLS = 1-3 ]		

**PRIMARY CAUSE OF DEATH**

- Liver Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 294

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504144

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
Note: NO CORRELATING LESIONS FOR TGL 3-8. [ Hepatocellular Adenoma TGLS = 2-8 ]			
* Ovary	Periovarn Tiss	Cyst	Mild
[ Cyst TGLS = 1-6 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 295

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 604

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504145

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Pituitary Gland
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Lymphoma Malignant	
* Bone Marrow		Lymphoma Malignant	
* Heart		Mineralization	Moderate
* Intestine Large, Colon		Lymphoma Malignant	
* Kidney		Accumulation, Hyaline Droplet	Moderate
		Lymphoma Malignant	
Note: The hyaline droplets in the kidney would indicate a monoclonal response by the neoplasm.			
* Liver		Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 4-8 ]	
* Lung		Lymphoma Malignant	
Lymph Node	Renal	Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 6-8 ]	
* Lymph Node, Mandibular		Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 7-9 ]	
* Lymph Node, Mesenteric		Lymphoma Malignant	
Note: The neoplasm was composed of a mixed population of cells ranging from mature lymphocytes to immature lymphocytes or histiocytes.			
		[ Lymphoma Malignant TGLS = 5-4 ]	
Mesentery		Lymphoma Malignant	
* Ovary		Atrophy	Moderate
* Pancreas		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Skin	SOA	Hyperkeratosis	Marked

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 295	<b>TRT#:</b> 6 <b>DOSE:</b> 30 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 604 <b>HISTO:</b> 9504145
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
[ Hyperkeratosis TGLS = 1-8 ]			
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-3 ]			
* Thymus		Atrophy	Mild
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Lymphoma Malignant	
[ Hyperplasia TGLS = 2-6 ]			

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PRIMARY CAUSE OF DEATH - Lymph Node, Mesenteric Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 296

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504146

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Myelofibrosis	Mild
* Liver		Eosinophilic Focus	
		Mixed Cell Focus	
[ Eosinophilic Focus TGLS = 3-8 ]			
* Ovary	Follicle	Cyst	Mild
[ Cyst TGLS = 2-6 ]			
* Pituitary Gland		Angiectasis	Minimal
* Skin		Fibrosarcoma	
	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate
[ Fibrosarcoma TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus	Endometrium	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 297

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504147

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
[ Clear Cell Focus TGLS = 2-8 ]			
[ Hepatocellular Adenoma TGLS = 1-8; 3-9; 4-10; 5-4 ]			
* Ovary	Follicle	Cyst	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 298

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504148

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 3-3; 4-4 ]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Ovary	Follicle	Cyst	Minimal
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 2-3 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 299

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504149

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 1-8 ]			
* Pancreas	Acinus	Atrophy	Minimal
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 300

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504150

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Bone Marrow		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Liver		Eosinophilic Focus	
		Lymphoma Malignant	
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
	[ Alveolar/Bronchiolar Adenoma TGLS = 4-8 ]		
	Lymph Node	Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 3-8 ]		
* Lymph Node, Mandibular		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 2-1 ]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Spleen		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 1-3 ]		
* Stomach, Forestomach		Squamous Cell Papilloma	
	[ Squamous Cell Papilloma TGLS = 5-9 ]		
* Thymus		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 300

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504150

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 301

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 478

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 9504151

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Liver		Vacuolization Cytoplasmic	Mild
* Skin	SOA	Exudate	Mild
	SOA	Hyperkeratosis	Moderate
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Parakeratosis	Moderate
* Thymus		Atrophy	Mild

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 302

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504152

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Liver		Eosinophilic Focus	Multiple
[ Eosinophilic Focus TGLS = 4-4;3-8 ]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Ovary		Hemangioma	
[ Hemangioma TGLS = 2-6 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-7 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 303      **TRT#:** 6      **SEX:** Female      **DAY ON TEST:** 730  
**DOSE:** 30 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 9504153

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 1-3 ]			
* Ovary	Follicle	Cyst	Mild
[ Cyst TGLS = 2-6 ]			
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 3-8 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 304

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 94

**DOSE:** 30 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9504154

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**OBSERVATIONS**

\* Skin

SOA

Hyperkeratosis

Minimal

Epidermis, SOA

Hyperplasia

Minimal

SOA, Sebaceous GI

Hyperplasia

Minimal

Dermis, SOA

Inflammation

Chronic Active, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 305

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 605

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504155

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland
* Salivary Glands	Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Moderate
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 1-6 ]			

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 306

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504156

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Pituitary Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
[ Eosinophilic Focus TGLS = 1-8 ]			
* Skin	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 307      **TRT#:** 6      **SEX:** Female      **DAY ON TEST:** 669  
**DOSE:** 30 MG/KG      **DISP:** Moribund Sacrifice      **HISTO:** 9504157

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Intestine Small, Jejunum		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-8; 3-4 ]			
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Accumulation, Hyaline Droplet	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 6-3 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-8 ]			
* Ovary	Follicle	Cyst	Minimal
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
[ Hematopoietic Cell Proliferation TGLS = 4-3 ]			
[ Lymphoma Malignant TGLS = 4-3 ]			
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicle	Cyst	Minimal
[ Cyst TGLS = 5-2 ]			

**PRIMARY CAUSE OF DEATH**      - Intestine Small, Jejunum      Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 308

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 386

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504158

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Intestine Small, Duodenum		Inflammation	Suppurative, Moderate
Mesentery		Inflammation	Suppurative, Moderate
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

**PRIMARY CAUSE OF DEATH**

- Intestine Small, Duodenum Inflammation

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 309      **TRT#:** 6      **SEX:** Female      **DAY ON TEST:** 659  
**DOSE:** 30 MG/KG      **DISP:** Moribund Sacrifice      **HISTO:** 9504159

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Clitoral Gland

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[ Angiectasis TGLS = 2-8 ]		
	[ Hepatocellular Adenoma TGLS = 2-8; 3-3 ]		
	[ Hepatocellular Carcinoma TGLS = 1-2, 4 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Ovary		Atrophy	Mild
* Skin	SOA	Hyperkeratosis	Moderate
	Epidermis, SOA	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	[ Hyperplasia TGLS = 4-6 ]		

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 310                      **TRT#:** 6                      **SEX:** Female                      **DAY ON TEST:** 721  
**DOSE:** 30 MG/KG                      **DISP:** Natural Death                      **HISTO:** 9504160

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Lymphoma Malignant	
* Bone Marrow		Lymphoma Malignant	
* Brain		Lymphoma Malignant	
		Necrosis	Minimal
* Heart		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Liver		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 2-2, 3, 4 ]		
* Lung		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Nose		Lymphoma Malignant	
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 1-3 ]		
* Stomach, Glandular		Mineralization	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
		Lymphoma Malignant	
* Uterus		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 310

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 721

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 9504160

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Bone Marrow Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 311

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 637

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9504161

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Heart		Degeneration	Minimal
Lymph Node	Renal	Fibrosarcoma	Metastatic (Skeletal Muscle)
[ Fibrosarcoma TGLS = 4-8 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 3-8 ]			
Skeletal Muscle		Fibrosarcoma	
[ Fibrosarcoma TGLS = 5-8, 9 ]			
* Skin	SOA	Hyperkeratosis	Moderate
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 2-3 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 1-6 ]			

**PRIMARY CAUSE OF DEATH** - Skeletal Muscle Fibrosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 312      **TRT#:** 6      **SEX:** Female      **DAY ON TEST:** 730  
**DOSE:** 30 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 9504162

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Stomach, Glandular	* Trachea	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Intestine Small, Jejunum		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-10 ]			
* Kidney		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 11-3 ]			
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 3-9 ]		Lymphoma Malignant	
Lymph Node	Deep Cervical	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-9 ]	Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 9-10 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 8-1 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-8 ]			
Mesentery		Necrosis	Moderate
[ Necrosis TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 312	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 30 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9504162

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	SOA, Sebaceous GI Dermis, SOA	Hyperplasia Inflammation Lymphoma Malignant	Mild Chronic Active, Moderate
* Spleen [ Lymphoma Malignant TGLS = 2-3; 7-8 ]			
* Stomach, Forestomach [ Squamous Cell Papilloma TGLS = 10-10 ]		Squamous Cell Papilloma	
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 313

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504163

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney		Lymphoma Malignant	
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Lymphoma Malignant	
		Mixed Cell Focus	
	[ Eosinophilic Focus TGLS = 12-3 ]		
	[ Hepatocellular Adenoma TGLS = 8-8;9-4 ]		
	[ Mixed Cell Focus TGLS = 11-9 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Lymphoma Malignant	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 10-2 ]		
Lymph Node	Deep Cervical	Lymphoma Malignant	
	Lumbar	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 7-10 ]		
	[ Lymphoma Malignant TGLS = 6-9 ]		
	[ Lymphoma Malignant TGLS = 2-8 ]		
* Lymph Node, Mandibular		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 3-1 ]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 5-4 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 313	<b>TRT#:</b> 6 <b>DOSE:</b> 30 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 9504163
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Mesentery		Hemangioma	
* Ovary	Periovarn Tiss Periovarn Tiss	Cyst Lymphoma Malignant	Mild
[ Cyst TGLS = 4-6 ]			
* Skin	SOA Epidermis, SOA SOA, Sebaceous GI Dermis, SOA	Hyperkeratosis Hyperplasia Hyperplasia Inflammation Lymphoma Malignant	Mild Moderate Mild Chronic Active, Moderate
* Spleen			
[ Lymphoma Malignant TGLS = 1-3 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 314

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504164

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Ovary	Follicle	Cyst	Minimal
[ Cyst TGLS = 1-6 ]			
* Skin	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 315

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 94

**DOSE:** 30 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9504165

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**OBSERVATIONS**

\* Skin

SOA

Hyperkeratosis

Minimal

Epidermis, SOA

Hyperplasia

Minimal

SOA, Sebaceous GI

Hyperplasia

Minimal

Dermis, SOA

Inflammation

Chronic Active, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 316

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504166

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2-2, 4; 3-3 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 4-8 ]			
* Ovary		Angiectasis	Moderate
[ Angiectasis TGLS = 1-6 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 317

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504167

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Mixed Cell Focus	
	[ Hepatocellular Adenoma TGLS = 1-3 ]		
	[ Hepatocellular Carcinoma TGLS = 1-8 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 318

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 692

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 9504168

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Islets, Pancreatic		Adenoma	
* Liver		Eosinophilic Focus	
		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-8 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Ovary		Granulosa Cell Tumor Benign	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
[ Hyperplasia TGLS = 2-6 ]			

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 319

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 524

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 9504169

**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	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Pituitary Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Parathyroid Gland

**AUTO PRECLUDES DIAG.**

\* Gallbladder

**OBSERVATIONS**

* Ovary	Follicle	Cyst	Moderate
[ Cyst TGLS = 1-6 ]			
* Skin	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
	Dermis, SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Parakeratosis	Moderate

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 320	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 30 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9504170

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

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**MISSING**

* Lymph Node, Mandibular	* Lymph Node, Mesenteric
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**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 1-3; 2-4 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 321

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504171

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
	[ Hepatocellular Adenoma TGLS = 1-8; 2-8 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Marked
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 322

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504172

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Glandular		Mineralization	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 323      **TRT#:** 6      **SEX:** Female      **DAY ON TEST:** 730  
**DOSE:** 30 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 9504173

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pancreas	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Zona Fasciata	Vacuolization Cytoplasmic	Moderate
* Liver		Eosinophilic Focus	Multiple
		Hepatocellular Adenoma	Multiple
	[ Eosinophilic Focus TGLS = 6-9 ]		
	[ Hepatocellular Adenoma TGLS = 3-8; 4-10; 5-11; 7-3 ]		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 2-8 ]		
* Ovary		Luteoma	
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Thyroid Gland		Adenoma	
	Follicular Cel	Hyperplasia	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 324

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504174

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 2-8 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Skin	SOA	Exudate	Mild
	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Mild
* Spleen		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 1-8 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 325

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504175

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Kidney		Plasma Cell Tumor Malignant	Metastatic (Lymph Node, Mesenteric)
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 2-3; 3-9 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Plasma Cell Tumor Malignant	Metastatic (Lymph Node, Mesenteric)
	[ Alveolar/Bronchiolar Carcinoma TGLS = 4-8 ]		
* Lymph Node, Mandibular		Plasma Cell Tumor Malignant	Metastatic (Lymph Node, Mesenteric)
* Lymph Node, Mesenteric		Plasma Cell Tumor Malignant	
* Ovary		Atrophy	Mild
	Periovarn Tiss	Plasma Cell Tumor Malignant	Metastatic (Lymph Node, Mesenteric)
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 5-7 ]		
* Skin	SOA	Exudate	Moderate
		Fibrosarcoma	
	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Marked
	SOA, Sebaceous GI	Hyperplasia	Moderate
	Dermis, SOA	Inflammation	Chronic Active, Moderate
	Epidermis, SOA	Parakeratosis	Mild
	[ Fibrosarcoma TGLS = 1-8 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 325

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504175

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 326

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504176

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Skin	SOA	Exudate	Minimal
	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 327

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504177

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 328

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 94

**DOSE:** 30 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9504178

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**OBSERVATIONS**

\* Skin

SOA, Sebaceous GI

Hyperplasia

Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 329

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 369

**DOSE:** 30 MG/KG

**DISP:** Accidentally Killed

**HISTO:** 9504179

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Lung		Hemorrhage	Mild
* Ovary	Follicle	Cyst	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

Animal Note: Death of the mouse was accidental.

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 330

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9504180

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* 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	* Salivary Glands	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Liver		Eosinophilic Focus Hepatocellular Adenoma Hepatocellular Carcinoma	
[ Hepatocellular Adenoma TGLS = 5-3 ]			
[ Hepatocellular Carcinoma TGLS = 4-8 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
[ Hepatocellular Carcinoma TGLS = 1-2; 6-2 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-8 ]			
* Ovary		Atrophy	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Mild
	Dermis, SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-3 ]			
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 7-9 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 91014-04  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Oleic acid diethanolamine condensate  
**CAS Number:** 93-83-4

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 21:05:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**\*\* END OF REPORT \*\***