

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>C Number:</b>	C93020D
<b>Lock Date:</b>	03/14/2003
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	07/13/2004

**Experiment Number:** 93020-07  
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**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
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**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 1	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 533
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 97695

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration Hyperplasia	Fatty, Moderate Diffuse, Moderate
[ Degeneration TGLS = 2-10 ]			
[ Hyperplasia TGLS = 2-10 ]			
* Adrenal Medulla		Hyperplasia	Mild
* Brain		Compression	Mild
[ Compression TGLS = 8-1 ]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[ Vacuolization Cytoplasmic TGLS = 4-6 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
[ Hemorrhage TGLS = 5-5 ]			
* Pituitary Gland	Pars Distalis Pars Intermed	Adenoma Adenoma	
[ Adenoma TGLS = 7-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis	Hyperplasia Inflammation	Moderate Chronic, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
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**Date Report Requested:** 10/20/2014  
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**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 1	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 533
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 97695

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 6-21 ]

[ Inflammation TGLS = 6-21 ]

* Testes	Germinal Epith	Atrophy	Mild
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[ Atrophy TGLS = 1-7 ]

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**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Intermed Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
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**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 705
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 101288

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Moderate
		Hydrocephalus	Mild
[ Compression TGLS = 5-1 ]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Marked
* Lung		Infiltration Cellular	Histiocyte, Mild
[ Infiltration Cellular TGLS = 7-23 ]			
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 4-22 ]			
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-24 ]			
* Prostate		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
[ Fibroma TGLS = 2-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:13

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 2

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 705

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 101288

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 3-7 ]

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 463

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 96125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Carcinoma Compression	Metastatic (Pituitary Gland) Mild
Note: HYPOTHALAMUS NECROSIS PRESENT. [ Carcinoma TGLS = 3-1 ]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Ulcer	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Mild
Mesentery		Accessory Spleen	
[ Accessory Spleen TGLS = 1-21 ]			
* Pituitary Gland	Pars Distalis	Carcinoma	
[ Carcinoma TGLS = 2-1 ]			
* Prostate		Inflammation	Chronic, Moderate
* Salivary Glands		Atrophy	Mild
* Spleen		Pigmentation	Moderate
* Stomach, Glandular		Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 4                      **TRT#:** 1                      **SEX:** Male                      **DAY ON TEST:** 731  
**DOSE:** 0 MG/KG                      **DISP:** Terminal Sacrifice                      **HISTO:** 101362

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
* Brain		Compression	Marked
		Hydrocephalus	Mild
	[ Compression TGLS = 7-1 ]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	[ Nephropathy TGLS = 3-5 ]		
* Liver		Angiectasis	Mild
		Clear Cell Focus	
		Mixed Cell Focus	
	Note: MULTIPLE FOCI OF COLORLESS PARTICULATE OR CRYSTALLINE SUBSTANCE WITHIN LIVER PARENCHYMA; CONSIDERED A FIXATION ARTIFACT.		
	[ Angiectasis TGLS = 4-6 ]		
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
	[ Hyperplasia TGLS = 6-3 ]		
* Lymph Node, Mesenteric		Ectasia	Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 4	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 731 <b>HISTO:</b> 101362
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pituitary Gland [ Adenoma TGLS = 8-1 ]	Pars Distalis	Adenoma	
* Preputial Gland [ Inflammation TGLS = 1-8 ]		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Mild Chronic, Mild
* Testes [ Atrophy TGLS = 2-7 ]	Germinal Epith	Atrophy	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 93020-07  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: Diisopropylcarbodiimide  
CAS Number: 693-13-0

Date Report Requested: 10/20/2014  
Time Report Requested: 08:42:13  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 5      TRT#: 1      SEX: Male      DAY ON TEST: 716  
DOSE: 0 MG/KG      DISP: Natural Death      HISTO: 102391

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla [ Pheochromocytoma Malignant TGLS = 2-10 ]		Pheochromocytoma Malignant	
* Brain [ Compression TGLS = 6-1 ]		Compression	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Hyperplasia Nephropathy	Mild Moderate
* Liver [ Hepatodiaphragmatic Nodule TGLS = 3-22 ]		Basophilic Focus Hepatodiaphragmatic Nodule	
* Lung [ Hemorrhage TGLS = 5-2 ]	Alveolar Epith	Hemorrhage Hyperplasia Inflammation	Mild Minimal Chronic, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland [ Adenoma TGLS = 7-1 ]	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Moderate
* Skin		Keratoacanthoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 5	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 716
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 102391

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Keratoacanthoma TGLS = 1-21 ]

* Spleen	Pigmentation	Moderate
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PRIMARY CAUSE OF DEATH	- Adrenal Medulla Pheochromocytoma Malignant
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 657
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 101289

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	Tongue	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
* Brain		Compression	Mild
[ Compression TGLS = 5-1 ]			
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
[ Adenoma TGLS = 1-7 ]			
* Kidney		Nephropathy	Moderate
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
[ Eosinophilic Focus TGLS = 9-24 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Minimal
[ Hyperplasia TGLS = 7-22 ]			
[ Infiltration Cellular TGLS = 6-21,7-22 ]			
[ Inflammation TGLS = 6-21 ]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
Mesentery		Mesothelioma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
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**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 657 <b>HISTO:</b> 101289
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: MESOTHELIOMA IS ON SLIDE 7-1.

* Pituitary Gland [ Adenoma TGLS = 4-1 ]	Pars Intermed	Adenoma	
* Prostate		Inflammation	Chronic, Moderate
* Testes [ Adenoma TGLS = 2-7 ]	Bilateral, Interstit Cell	Adenoma	

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PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Intermed Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Mesentery Mesothelioma Malignant

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\* PROTOCOL REQUIRED TISSUE

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**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
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**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 7	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 690
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 101290

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
Peripheral Nerve	* Salivary Glands	* Seminal Vesicle	Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Brain		Compression	Marked
		Hydrocephalus	Mild
[ Compression TGLS = 5-1 ]			
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
[ Hyperplasia TGLS = 8-23 ]			
[ Infiltration Cellular TGLS = 8-23 ]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 3-21 ]			
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
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**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 7	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 690 <b>HISTO:</b> 101290
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 6-24 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Skin	Epidermis	Hyperplasia Inflammation	Moderate Chronic, Moderate
[ Hyperplasia TGLS = 4-22 ]			
[ Inflammation TGLS = 4-22 ]			
* Testes	Interstitial Cell	Adenoma	
[ Adenoma TGLS = 2-7 ]			

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PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 8	<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> 101363

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Skin

**OBSERVATIONS**

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Clear Cell Focus	
		Eosinophilic Focus	
* Lung	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Lymphoid, Mild
[ Adenoma TGLS = 3-1 ]		Adenoma	
* Prostate		Inflammation	Chronic, Mild
Skeletal Muscle		Lipoma	
[ Lipoma TGLS = 1-21 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-7 ]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:13

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 8

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101363

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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:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 9	<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> 101364

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Ectasia	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Mild
[ Ectasia TGLS = 5-3 ]			
[ Hyperplasia TGLS = 5-3 ]			
[ Pigmentation TGLS = 5-3 ]			
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-1 ]			
* Prostate		Inflammation	Chronic, Moderate
[ Inflammation TGLS = 4-7-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 9	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 101364
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 2-7 ]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	Follicle	Cyst	Moderate

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 101365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Islets, Pancreatic [ Carcinoma TGLS = 4-7 ]		Carcinoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pituitary Gland [ Adenoma TGLS = 5-1 ]	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Fibrosis	Mild
		Pigmentation	Moderate
* Stomach, Glandular	Glands	Hyperplasia	Mild
* Testes [ Adenoma TGLS = 3-7 ]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland [ Carcinoma TGLS = 6-3 ]	C Cell	Carcinoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:13

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101365

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 11

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101366

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
Note: EXTENSIVE ANGIECTASIS ASSOCIATED WITH ADENOMA. [ Adenoma TGLS = 4-1 ]			
* Preputial Gland		Hyperplasia	Mild
		Inflammation	Chronic, Mild
Note: EXTENSIVE PROTEINACEOUS MATERIAL ASSOCIATED WITH INFLAMMATION (TGL 2-8). [ Hyperplasia TGLS = 2-8 ] [ Inflammation TGLS = 2-8 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[ Fibroma TGLS = 1-21 ]			
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 11	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 101366
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 3-7 ]	Bilateral, Interstit Cell	Adenoma
* Thyroid Gland	C Cell Follicular Cel	Adenoma Adenoma

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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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> 101367

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

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**MISSING**

\* Lymph Node, Mandibular

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**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pancreas		Atrophy	Mild
* Prostate		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-7 ]		
* Thyroid Gland	C Cell	Carcinoma	

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 13

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101368

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Intermed	Carcinoma	
Note: THE CARCINOMA IS INFILTRATING THE PARS NERVOSA.			
* Preputial Gland		Adenoma	
[ Adenoma TGLS = 1-21 ]			
* Prostate	Epithelium	Hyperplasia	Minimal
* Skin	Sebaceous GI	Carcinoma	
[ Carcinoma TGLS = 3-22 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 13	<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> 101368

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 2-7 ]			
* Thyroid Gland	C Cell Follicular Cel	Adenoma Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 14

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 692

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 101291

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Kidney	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Thrombosis	Marked
[ Thrombosis TGLS = 5-5 ]			
* Islets, Pancreatic		Adenoma	
* Liver	Bile Duct	Hyperplasia	Moderate
	Centrilobular	Necrosis	Moderate
[ Hyperplasia TGLS = 4-6 ]			
[ Necrosis TGLS = 4-6 ]			
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Pancreatic	Pigmentation	Moderate
[ Leukemia Mononuclear TGLS = 8-7 ]			
[ Pigmentation TGLS = 8-7 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 9-23 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 14	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 692 <b>HISTO:</b> 101291
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate		Inflammation	Chronic, Minimal
* Skin	Epidermis	Hyperplasia Inflammation	Marked Chronic, Marked
	[ Hyperplasia TGLS = 6-21 ] [ Inflammation TGLS = 6-21 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-6 ]		
* Stomach, Forestomach		Ulcer	Marked
	[ Ulcer TGLS = 7-22 ]		
* Stomach, Glandular		Erosion	Moderate
	[ Erosion TGLS = 7-22 ]		
* Testes	Interstit Cell	Adenoma	

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 15

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101369

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-22 ]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Minimal
* Skin		Keratoacanthoma	
[ Keratoacanthoma TGLS = 1-21 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 16

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 599

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 98670

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Intestine Small, Duodenum	* Lymph Node, Mandibular
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**OBSERVATIONS**

* Adren Cortex		
Note: FOCUS OF APPARENT FIBROSIS IN INNER PORTION OF ADRENAL CORTEX; CONSIDERED INCIDENTAL AND NOT TABULATED.		
* Brain	Compression	Marked
[ Compression TGLS = 5-1 ]		
* Heart	Cardiomyopathy	Mild
* Kidney	Nephropathy	Mild
* Lung	Edema	Mild
[ Edema TGLS = 4-2 ]	Infiltration Cellular	Histiocyte, Minimal
[ Infiltration Cellular TGLS = 4-2 ]		
* Lymph Node, Mesenteric	Pigmentation	Mild
* Mammary Gland	Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8 ]		
* Pituitary Gland	Pars Distalis	Adenoma
[ Adenoma TGLS = 6-21 ]		
* Prostate	Inflammation	Chronic, Mild

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 17

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 608

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98741

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Glandular	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Lymphoma Malignant	
* Islets, Pancreatic		Adenoma	
* Kidney		Lymphoma Malignant	
* Liver	Bile Duct	Hyperplasia	Moderate
		Lymphoma Malignant	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Lymphoma Malignant	
Lymph Node	Deep Cervical	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
		Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 11-3 ]	
		[ Lymphoma Malignant TGLS = 7-28 ]	
		[ Lymphoma Malignant TGLS = 12-24 ]	
		[ Lymphoma Malignant TGLS = 13-25 ]	
* Lymph Node, Mesenteric		Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 8-26 ]	
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Marked
* Pancreas		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 17	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 608 <b>HISTO:</b> 98741
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**ORGAN AND ACCOUNTABLE SITE STATUS**

Note: PANCREAS IS ON SLIDE 28.		Lymphoma Malignant	
* Pituitary Gland [ Adenoma TGLS = 14-1 ]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate [ Inflammation TGLS = 10-7-1 ] [ Lymphoma Malignant TGLS = 10-7-1 ]		Inflammation Lymphoma Malignant	Chronic, Moderate
* Skin [ Fibroma TGLS = 3-23 ] [ Hyperplasia TGLS = 1-21,2-22 ] [ Ulcer TGLS = 1-21 ]	Subcut Tiss Epidermis	Fibroma Hyperplasia Ulcer	Moderate Moderate
* Spleen [ Lymphoma Malignant TGLS = 4-27 ]		Lymphoma Malignant	
* Stomach, Forestomach		Erosion	Mild
* Testes [ Adenoma TGLS = 6-7 ]	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Mild
* Thymus		Lymphoma Malignant	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant  
CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma;Skin Subcut Tiss Fibroma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 18

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 688

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 101292

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Malignant	
	[ Pheochromocytoma Malignant TGLS = 4-21 ]		
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Necrosis	Moderate
* Lung		Inflammation	Chronic, Minimal
		Pheochromocytoma Malignant	Metastatic (Adrenal Medulla)
Lymph Node	Mediastinal	Hemorrhage	Marked
	[ Hemorrhage TGLS = 5-3 ]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 18	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 688 <b>HISTO:</b> 101292
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate		Inflammation	Chronic, Minimal
* Spleen [ Atrophy TGLS = 2-6 ]	Lymph Follic	Atrophy	Moderate
* Testes [ Adenoma TGLS = 1-7 ]	Interstit Cell Germinal Epith	Adenoma Atrophy	Minimal

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PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 19

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 701

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101293

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Thrombosis	Moderate
[ Thrombosis TGLS = 8-5 ]			
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Moderate
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
[ Leukemia Mononuclear TGLS = 7-6 ]			
* Lung		Hyperplasia	Minimal
	Alveolar Epith	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 9-2 ]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
Note: ZONE OF NECROSIS ASSOCIATED WITH LEUKEMIA IN PANCREATIC LYMPH NODE.			
[ Leukemia Mononuclear TGLS = 4-7 ]			
* Lymph Node, Mesenteric		Ectasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 19	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 701
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 101293

**ORGAN AND ACCOUNTABLE SITE STATUS**

		Pigmentation	Mild
[ Pigmentation TGLS = 11-5 ]			
* Mammary Gland		Hyperplasia	Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 10-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Marked
[ Inflammation TGLS = 3-7-1 ]			
* Spleen		Leukemia Mononuclear	
		Necrosis	Moderate
[ Leukemia Mononuclear TGLS = 5-21 ]			
[ Necrosis TGLS = 6-21 ]			
* Stomach, Forestomach		Ulcer	Minimal
* Stomach, Glandular		Ulcer	Mild
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	Bilateral, C Cell	Adenoma	
<b>PRIMARY CAUSE OF DEATH</b>	- Spleen Leukemia Mononuclear		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 20

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101370

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
[ Fibroma TGLS = 1-21 ]			
* Testes	Interstitial Cell	Adenoma	
[ Adenoma TGLS = 3-7 ]	Germinal Epith	Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 20

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101370

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Atrophy TGLS = 2-7 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 21

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101371

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Moderate Fatty, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 22

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 687

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 101294

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Lymph Node, Mandibular	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Brain		Carcinoma	Metastatic (Pituitary Gland)
		Compression	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Marked
		[ Hyperplasia TGLS = 2-22 ]	
* Nose		Foreign Body	
	Respirat Epith	Metaplasia	Squamous, Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	
		[ Carcinoma TGLS = 4-1 ]	
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
		Squamous Cell Papilloma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:13

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 22

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 687

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 101294

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Squamous Cell Papilloma TGLS = 1-21 ]

\* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Moderate

\* Testes

Interstit Cell

Hyperplasia

Mild

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**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Carcinoma

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 23

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101372

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Heart		Cardiomyopathy	Mild
		Schwannoma Malignant	
Note: HEART SCHWANNOMA APPEARS TO BE IN AN EARLY STAGE.			
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Marked
* Pancreas	Acinus	Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
		[ Adenoma TGLS = 2-1 ]	
* Prostate		Inflammation	Chronic, Moderate
* Stomach, Glandular	Glands	Hyperplasia	Mild
* Testes	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	Follicle	Cyst	Moderate

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 533

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 97696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Myelofibrosis	Mild
* Brain		Compression	Marked
		Hydrocephalus	Mild
[ Compression TGLS = 2-1 ]			
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 25

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101373

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
* Brain		Carcinoma	Metastatic (Pituitary Gland)
		Compression	Marked
	[ Compression TGLS = 5-1 ]		
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Lymph Node	Mediastinal	Ectasia	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	[ Ectasia TGLS = 3-3 ]		
	[ Hyperplasia TGLS = 3-3 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Marked
	[ Hyperplasia TGLS = 1-21,2-22 ]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	
	[ Carcinoma TGLS = 6-1 ]		
* Prostate	Epithelium	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 25	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 101373
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Skeletal Muscle [ Sarcoma TGLS = 4-23 ]		Inflammation Sarcoma	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 26

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101374

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	Multiple
* Kidney		Inflammation	Chronic, Moderate
		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas	Acinus	Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 26	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 731 <b>HISTO:</b> 101374
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 2-7 ]	Interstit Cell Germinal Epith	Adenoma Atrophy	Minimal
* Thyroid Gland [ Carcinoma TGLS = 3-3 ]	C Cell	Carcinoma	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 27

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101375

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Carcinoma	
		Hyperplasia	Mild
	[ Carcinoma TGLS = 2-7 ]		
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	[ Hepatodiaphragmatic Nodule TGLS = 3-21 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 5-1 ]		
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Schwannoma Malignant	
	[ Schwannoma Malignant TGLS = 4-22 ]		
* Testes	Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 27	<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> 101375

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 1-7 ]	Germinal Epith	Atrophy	Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 28

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 637

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101295

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	Peripheral Nerve	* Prostate
* Salivary Glands	* Seminal Vesicle	Spinal Cord	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

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

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Thrombosis	Mild
		[ Cardiomyopathy TGLS = 7-5 ]	
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Necrosis	Moderate
		Nephropathy	Moderate
		[ Necrosis TGLS = 4-21 ]	
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 6-3 ]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 5-5 ]	
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Marked
	Respirat Epith	Metaplasia	Squamous, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 28	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 637
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 101295

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Epidermis	Hyperplasia	Marked
		Inflammation	Chronic, Marked
	[ Hyperplasia TGLS = 8-22 ]		
	[ Inflammation TGLS = 8-22 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3-6 ]		
* Stomach, Glandular		Erosion	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
	[ Adenoma TGLS = 2-7 ]		

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**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear

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Animal Note: SEVERAL INTESTINAL SECTIONS ARE DILATED; MORPHOLOGY UNAVAILABLE ON TDMS.

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 29

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101376

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-6 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Pancreas	Acinus	Adenoma	
	Acinus	Hyperplasia	Focal, Mild
[ Adenoma TGLS = 2-7 ]			
[ Hyperplasia TGLS = 2-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Preputial Gland		Hyperplasia	Mild
* Prostate		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 29	<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> 101376

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Spleen		Leukemia Mononuclear
* Testes	Bilateral, Interstit Cell	Adenoma
[ Adenoma TGLS = 1-7 ]		

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 30

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101377

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-6 ]			
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 30	<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> 101377

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Leukemia Mononuclear TGLS = 4-6 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-7 ]			
PRIMARY CAUSE OF DEATH	-		

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 31	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 101378

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**MISSING**

\* Lymph Node, Mandibular

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**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

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**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Prostate		Adenoma	
		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-7 ]		

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 582

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 98224

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Carcinoma Compression	Metastatic (Pituitary Gland) Mild
[ Carcinoma TGLS = 9-21 ]			
* Islets, Pancreatic		Hyperplasia	Mild
* Liver		Basophilic Focus Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
[ Hepatodiaphragmatic Nodule TGLS = 10-22 ]			
* Lung		Hemorrhage Infiltration Cellular	Mild Histiocyte, Mild
[ Hemorrhage TGLS = 5-2,6-2,7-2 ]			
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mediastinal	Pigmentation	Mild
[ Hyperplasia TGLS = 4-3 ]			
[ Pigmentation TGLS = 4-3 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pituitary Gland	Pars Distalis	Carcinoma	
[ Carcinoma TGLS = 8-1 ]			
* Prostate		Inflammation	Chronic, Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 32	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 582
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 98224

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen	Pigmentation	Moderate
* Thymus	Hemorrhage	Mild

[ Hemorrhage TGLS = 3-3 ]

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**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Carcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 33

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 637

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101296

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
		Hyperplasia	Mild
* Mammary Gland			
[ Hyperplasia TGLS = 1-8 ]			
* Nose		Inflammation	Chronic, Marked
		Squamous Cell Carcinoma	
[ Squamous Cell Carcinoma TGLS = 11-9,11-9-1 ]			
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 12-21 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-7 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 33	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 637
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 101296

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Nose Squamous Cell Carcinoma		

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 101379

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Lymphoma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Chronic, Moderate
		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Fibrosis	Moderate
		Lymphoma Malignant	
[ Fibrosis TGLS = 2-21 ]			
[ Lymphoma Malignant TGLS = 2-21 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 697

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 101297

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                          |                           |                             |
|----------------------------|--------------------------|---------------------------|-----------------------------|
| * Bone                     | * Epididymis             | * Esophagus               | * Harderian Gland           |
| * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Islets, Pancreatic     | * Pancreas                | * Parathyroid Gland         |
| * Salivary Glands          | * Seminal Vesicle        | * Thymus                  | * Thyroid Gland             |
| * Trachea                  | * Urinary Bladder        |                           |                             |

MISSING

- |                          |                          |
|--------------------------|--------------------------|
| * Intestine Small, Ileum | * Lymph Node, Mandibular |
|--------------------------|--------------------------|

OBSERVATIONS

- |                   |              |                           |   |
|-------------------|--------------|---------------------------|---|
| * Adrenal Cortex  |              | Degeneration              | Fatty, Moderate                               |
|                   |              | Hyperplasia               | Focal, Minimal                                |
|                   |              | Hypertrophy               | Focal, Mild                                   |
| * Adrenal Medulla |              | Hyperplasia               | Minimal                                       |
| * Bone Marrow     |              | Leukemia Mononuclear      |   |
| * Brain           |              | Hemorrhage                | Minimal                                       |
| * Eye             | Retina       | Degeneration              | Mild  |
| * Heart           |              | Cardiomyopathy            | Moderate                                      |
|                   |              | Thrombosis                | Moderate                                      |
|                   |              |                           | [ Thrombosis TGLS = 13-5-1 ]                  |
| * Kidney          |              | Nephropathy               | Mild  |
|                   | Renal Tubule | Pigmentation              | Moderate                                      |
| * Liver           | Bile Duct    | Hyperplasia               | Moderate                                      |
|                   |              | Leukemia Mononuclear      |   |
|                   | Hepatocyte   | Vacuolization Cytoplasmic | Marked  |
|                   |              |                           | [ Hyperplasia TGLS = 9-6,10-6 ]               |
|                   |              |                           | [ Leukemia Mononuclear TGLS = 9-6,10-6 ]      |
|                   |              |                           | [ Vacuolization Cytoplasmic TGLS = 9-6,10-6 ] |
| * Lung            |              | Hemorrhage                | Minimal                                       |
|                   |              | Infiltration Cellular     | Histiocyte, Mild                              |
|                   |              | Leukemia Mononuclear      |   |
|                   |              |                           | [ Hemorrhage TGLS = 14-2,14-24 ]              |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 35	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 697
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 101297

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Leukemia Mononuclear TGLS = 14-2,14-24 ]			
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Pancreatic	Hemorrhage	Marked
[ Hemorrhage TGLS = 12-3 ]			
[ Hemorrhage TGLS = 6-7 ]			
* Lymph Node, Mesenteric		Hemorrhage	Moderate
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 2-8 ]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 16-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis	Hyperplasia	Marked
		Ulcer	Marked
[ Hyperplasia TGLS = 15-22 ]			
[ Ulcer TGLS = 15-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
		Necrosis	Marked
[ Hematopoietic Cell Proliferation TGLS = 7-23 ]			
[ Leukemia Mononuclear TGLS = 7-23 ]			
[ Necrosis TGLS = 8-21 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Ulcer	Moderate
[ Ulcer TGLS = 11-4 ]			
* Stomach, Glandular		Erosion	Moderate
		Ulcer	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 35	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 697 <b>HISTO:</b> 101297
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
[ Adenoma TGLS = 3-7 ]			
[ Atrophy TGLS = 4-7 ]			

---

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 593

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 98243

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Marked
[ Compression TGLS = 3-1 ]			
* Kidney		Nephropathy	Minimal
* Lung		Hemorrhage	Mild
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 2-8 ]			
* Nose		Foreign Body	
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 37

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 606

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98742

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Nose	* Parathyroid Gland
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Lymph Node, Mandibular	* Salivary Glands
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**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Mild
* Eye	Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 6-3 ]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas		Atrophy	Minimal
		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Saliv Glands			
Note: SALIVARY GLAND IS OBSCURED BY THE SKIN MALIGNANT SCHWANNOMA.			
* Skin	Subcut Tiss	Schwannoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 37	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 606
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 98742

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Schwannoma Malignant TGLS = 2-21 ]		
* Spleen	Hematopoietic Cell Proliferation	Mild
[ Hematopoietic Cell Proliferation TGLS = 5-6 ]		
* Testes	Bilateral, Interstit Cell	Adenoma
[ Adenoma TGLS = 4-7 ]		

---

PRIMARY CAUSE OF DEATH	- Skin Subcut Tiss Schwannoma Malignant
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 38

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 612

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 98743

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

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

* Adrenal Cortex		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 6-10 ]			
* Adrenal Medulla		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 6-10 ]			
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Edema	Moderate
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Necrosis	Moderate
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[ Hyperplasia TGLS = 8-6 ]			
[ Leukemia Mononuclear TGLS = 7-6,8-6 ]			
* Lung		Hemorrhage	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
[ Hemorrhage TGLS = 13-2,13-24,14-25 ]			
Lymph Node	Pancreatic	Hemorrhage	Marked
[ Hemorrhage TGLS = 5-7 ]			

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 612

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 98743

ORGAN AND ACCOUNTABLE SITE STATUS

\* Lymph Node, Mesenteric

Hemorrhage  
Leukemia Mononuclear

Marked

[ Hemorrhage TGLS = 10-5 ]  
[ Leukemia Mononuclear TGLS = 10-5 ]

Mesentery Fat  
[ Necrosis TGLS = 16-26 ]

Necrosis

Mild

\* Pancreas

Atrophy

Moderate

\* Prostate

Inflammation

Chronic, Minimal

\* Skin Epidermis

Hyperplasia  
Inflammation

Marked  
Chronic, Marked

[ Hyperplasia TGLS = 1-21 ]  
[ Inflammation TGLS = 1-21 ]

\* Spleen Leukemia Mononuclear  
[ Leukemia Mononuclear TGLS = 3-22,4-22 ]

\* Stomach, Forestomach

Ulcer

Marked

[ Ulcer TGLS = 15-4 ]

\* Stomach, Glandular

Erosion

Moderate

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 39

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 716

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 102392

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Salivary Glands	* Skin	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Leukemia Mononuclear	
* Adrenal Medulla		Pheochromocytoma Benign	
		Pheochromocytoma Malignant	
	[ Pheochromocytoma Malignant TGLS = 6-10 ]		
* Bone Marrow		Leukemia Mononuclear	
* Brain		Carcinoma	Metastatic (Pituitary Gland)
		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[ Leukemia Mononuclear TGLS = 7-5 ]		
	[ Nephropathy TGLS = 7-5 ]		
* Liver		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 9-6,10-22 ]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3-24 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-23 ]		
* Mammary Gland		Hyperplasia	Marked
Mesentery		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 39	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 716 <b>HISTO:</b> 102392
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**ORGAN AND ACCOUNTABLE SITE STATUS**

	Fat	Necrosis	Marked
	[ Leukemia Mononuclear TGLS = 2-21 ] [ Necrosis TGLS = 2-21 ]		
* Nose	Respirat Epith	Foreign Body Hyperplasia Inflammation	Mild Chronic, Mild
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Carcinoma	
	[ Carcinoma TGLS = 11-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation Leukemia Mononuclear	Chronic, Moderate
	[ Inflammation TGLS = 4-7-1 ] [ Leukemia Mononuclear TGLS = 4-7-1 ]		
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-6 ]		
* Stomach, Forestomach	Epithelium	Edema Hyperplasia Leukemia Mononuclear Perforation	Marked Moderate
	[ Perforation TGLS = 8-4 ]		
* Stomach, Glandular		Erosion Leukemia Mononuclear	Moderate
* Testes	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	C Cell	Carcinoma	

<b>PRIMARY CAUSE OF DEATH</b>	- Spleen Leukemia Mononuclear
<b>CONTRIBUTORY CAUSE OF DEATH</b>	- Adrenal Medulla Pheochromocytoma Malignant; Pituitary Gland Pars Distalis Carcinoma; Stomach; Forestomach Perforation; Thyroid Gland C Cell Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 40

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101380

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Astrocytoma Malignant	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Ectasia	Mild
		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
		[ Hyperplasia TGLS = 1-21 ]	
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		[ Adenoma TGLS = 4-1 ]	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 40	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 101380
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-7 ]			
* Thyroid Gland	Follicle Follicular Cel	Cyst Hyperplasia	Moderate Mild

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 522

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 97697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* 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	Peripheral Nerve	* Prostate	* Salivary Glands
* Seminal Vesicle	Skeletal Muscle	* Skin	Spinal Cord
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Mild
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Mild
* Brain		Hydrocephalus	Mild
		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 8-1 ]	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		[ Hepatodiaphragmatic Nodule TGLS = 5-21 ]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		[ Infiltration Cellular TGLS = 9-24 ]	
Lymph Node	Pancreatic	Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 2-7,2-22 ]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 6-5 ]	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 41	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 522
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 97697

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-6,4-6 ]			
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic, Moderate
		Ulcer	Mild
[ Hyperplasia TGLS = 7-4,7-23 ]			
[ Inflammation TGLS = 7-4,7-23 ]			
[ Ulcer TGLS = 7-23 ]			
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[ Atrophy TGLS = 1-7 ]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH      - Spleen    Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 42

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 676

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101298

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Eye	Retina	Degeneration	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[ Hyperplasia TGLS = 4-6 ]	
		[ Leukemia Mononuclear TGLS = 4-6 ]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
* Skin	Epidermis	Hyperplasia	Marked
		Ulcer	Marked
		[ Hyperplasia TGLS = 6-22 ]	
		[ Ulcer TGLS = 6-22 ]	
* Spleen		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 3-21 ]	
* Stomach, Forestomach		Ulcer	Moderate
		[ Ulcer TGLS = 5-4 ]	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 42	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 676
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 101298

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Stomach, Glandular

[ Erosion TGLS = 5-4 ]

[ Ulcer TGLS = 5-4 ]

\* Testes

[ Adenoma TGLS = 2-7 ]

Erosion

Ulcer

Bilateral, Interstit Cell

Adenoma

Mild

Marked

---

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 43

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 533

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 97698

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
	Centrilobular	Leukemia Mononuclear	
		Necrosis	Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 3-21 ]		
	[ Leukemia Mononuclear TGLS = 4-6 ]		
	[ Necrosis TGLS = 4-6 ]		
* Lung		Edema	Moderate
		Leukemia Mononuclear	
	[ Edema TGLS = 7-2 ]		
	[ Leukemia Mononuclear TGLS = 7-2 ]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-23 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 43	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 533
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 97698

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 8-1 ]			
* Skin	Epidermis	Hyperplasia	Moderate
		Ulcer	Moderate
[ Hyperplasia TGLS = 6-22 ]			
[ Ulcer TGLS = 6-22 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-6 ]			
* Testes	Interstit Cell	Adenoma	

---

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 44

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 662

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101299

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Marked
[ Compression TGLS = 4-1 ]			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Adenoma	
[ Adenoma TGLS = 6-22 ]			
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-23 ]			
* Prostate		Inflammation	Chronic, Moderate
* Skin		Keratoacanthoma	
[ Keratoacanthoma TGLS = 1-21 ]			
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:13

**First Dose M/F:** NA / NA

**Lab:** SRI

---

**ANIMAL ID:** 44

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 662

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101299

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Adenoma TGLS = 3-7,7-7 ]

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**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 45

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 677

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101300

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
		Hydrocephalus	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Marked
	[ Leukemia Mononuclear TGLS = 3-6 ]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-7 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLS = 4-21 ]		
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	[ Adenoma TGLS = 6-23 ]		
* Prostate		Inflammation	Chronic, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 45	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 677
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 101300

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen [ Leukemia Mononuclear TGLS = 2-24 ]		Leukemia Mononuclear	
* Stomach, Forestomach [ Hyperplasia TGLS = 5-22 ]	Epithelium	Hyperplasia	Marked
* Stomach, Glandular		Erosion	Mild
		Ulcer	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 46

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 593

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98244

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Lung		Hemorrhage	Minimal
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
[ Hyperplasia TGLS = 7-21 ]			
[ Infiltration Cellular TGLS = 7-21 ]			
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 4-3 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-7 ]			
* Thyroid Gland	C Cell	Carcinoma	
[ Carcinoma TGLS = 5-3 ]			

**PRIMARY CAUSE OF DEATH** - Thyroid Gland C Cell Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 46

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 593

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98244

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 47

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 535

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 97699

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Sarcoma	
Note: TGL 1 IS CONSIDERED A MALIGNANT SCHWANNOMA; MORPHOLOGY NOT AVAILABLE ON TDMS AND IS TABULATED AS "SARCOMA".			
[ Sarcoma TGLS = 1-21,1-21-1 ]			
* Spleen		Pigmentation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-7 ]			
* Thyroid Gland		Sarcoma	Metastatic (Salivary Glands)

**PRIMARY CAUSE OF DEATH**

- Salivary Glands Sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 48

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 677

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101301

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Marked
		Hydrocephalus	Mild
[ Compression TGLS = 2-1 ]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
* Pancreas		Atrophy	Mild
[ Atrophy TGLS = 4-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-22 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[ Fibroma TGLS = 5-21 ]			
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
[ Adenoma TGLS = 3-7 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 48

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 677

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101301

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Urin Bladder

Note: INFUSION ARTIFACT IN URINARY BLADDER.

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 49

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101381

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Mild
* Eye	Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mediastinal	Ectasia	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	[ Ectasia TGLS = 3-3 ]		
	[ Hyperplasia TGLS = 3-3 ]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 4-1 ]		
* Prostate	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 49	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 101381
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 2-7 ]	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	Multiple
	C Cell	Hyperplasia	Moderate

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 714

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 102393

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	Multiple
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Moderate
		Thrombosis	Moderate
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Necrosis	Minimal
	[ Necrosis TGLS = 3-6 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Pigmentation	Mild
* Pancreas		Atrophy	Minimal
* Preputial Gland		Carcinoma	
	[ Carcinoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 2-7 ]		
* Thyroid Gland	Follicle	Cyst	Moderate
		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH

- Preputial Gland Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Adrenal Medulla Pheochromocytoma Malignant

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 50

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 714

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 102393

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 51

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 601

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 98671

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver	Centrilobular	Necrosis	Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
Mesentery		Mesothelioma Malignant	
Note: MALIGNANT MESOTHELIOMA IS PRESENT ON SLIDES 4, 7, 7-1, 8, AND 21. [ Mesothelioma Malignant TGLS = 1-21 ]			
* Nose		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
	Lymph Follic	Hyperplasia	Moderate
* Stomach, Glandular		Erosion	Mild
[ Erosion TGLS = 7-4 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

- Mesentery Mesothelioma Malignant

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 52

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 600

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 98672

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
		[ Hyperplasia TGLS = 4-6 ]	
		[ Leukemia Mononuclear TGLS = 4-6 ]	
		[ Vacuolization Cytoplasmic TGLS = 4-6 ]	
* Lung		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 5-2 ]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate
		[ Hyperplasia TGLS = 1-8 ]	
* Nose		Foreign Body	
* Pituitary Gland	Pars Distalis	Adenoma	
		[ Adenoma TGLS = 7-1 ]	
* Skin	Epidermis	Hyperplasia	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 52	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 600
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 98672

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 6-21 ] [ Ulcer TGLS = 6-21 ]	Ulcer	Marked
* Spleen [ Leukemia Mononuclear TGLS = 3-6 ]	Leukemia Mononuclear	
* Stomach, Forestomach	Ulcer	Moderate
* Stomach, Glandular [ Erosion TGLS = 8-4 ]	Erosion	Moderate

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 546

DOSE: 10 MG/KG

DISP: Natural Death

HISTO: 97701

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Moderate
[ Compression TGLS = 3-1 ]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 2-21 ]			
* Lung		Edema	Mild
		Hemorrhage	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Nose		Foreign Body	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 54

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101431

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Inflammation	Chronic Active, Moderate
[ Inflammation TGLS = 5-21 ]			
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
[ Hyperplasia TGLS = 4-6 ]		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-6 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
* Nose		Foreign Body	
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 54	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 101431
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen [ Leukemia Mononuclear TGLS = 3-6 ]		Leukemia Mononuclear
* Testes [ Adenoma TGLS = 2-7 ]	Bilateral, Interstit Cell	Adenoma
* Thyroid Gland	C Cell	Adenoma

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PRIMARY CAUSE OF DEATH	-
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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 55

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101432

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Mild
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	
[ Hyperplasia TGLS = 5-6 ]			
[ Leukemia Mononuclear TGLS = 5-6 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 4-22 ]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 55	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 101432
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	Epithelium	Hyperplasia	Mild
	Subcut Tiss	Lipoma	
	[ Lipoma TGLS = 1-21 ]		
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 2-7 ]		
* Thyroid Gland	C Cell	Hyperplasia	Moderate

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 56

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101433

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland
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**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
* Pancreas		Atrophy	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 3-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	[ Adenoma TGLS = 2-7 ]		

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 57

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101434

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Moderate
[ Hyperplasia TGLS = 3-3 ]			
[ Pigmentation TGLS = 3-3 ]			
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 57	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 101434
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Lipoma TGLS = 1-21 ]	Subcut Tiss	Lipoma	
* Spleen		Leukemia Mononuclear	
* Testes	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

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<b>PRIMARY CAUSE OF DEATH</b>	-
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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 58

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101435

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
[ Eosinophilic Focus TGLS = 6-6 ]			
* Lymph Node, Mesenteric		Ectasia	Mild
		Pigmentation	Mild
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3-22 ]			
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
Note: SMALL FOCUS OF VACUOLATED CELLS IN PARS DISTALIS; CONSIDERED INCIDENTAL AND NOT TABULATED.			
[ Angiectasis TGLS = 5-1 ]			
* Skin	Epidermis	Hyperplasia	Moderate
	Epidermis, SOA	Hyperplasia	Minimal
Note: TGL 1-21 INCLUDES SKIN HYPERKERATOSIS (NOT TABULATED INDIVIDUALLY).			
[ Hyperplasia TGLS = 1-21 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 58

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101435

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 2-7 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 101436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Bone                    | * Brain                     | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * 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                    | * Preputial Gland           | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Spleen                 |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |  |                           |                            |                   |
|--|---------------------------|----------------------------|-------------------|
| * Adrenal Medulla                          |                           | Pheochromocytoma Malignant |                   |
| [ Pheochromocytoma Malignant TGLS = 2-21 ] |                           |                            |                   |
| * Bone Marrow                              |                           | Hyperplasia                | Mild              |
| * Heart                                    |                           | Cardiomyopathy             | Mild              |
| * Islets, Pancreatic                       |                           | Adenoma                    |                   |
| * Kidney                                   |                           | Inflammation               | Chronic, Moderate |
|  |                           | Nephropathy                | Marked            |
| * Liver                                    |                           | Basophilic Focus           |                   |
|  |                           | Clear Cell Focus           |                   |
|  | Bile Duct                 | Hyperplasia                | Minimal           |
| Lymph Node                                 | Pancreatic                | Hyperplasia                | Lymphoid, Mild    |
|  | Pancreatic                | Pigmentation               | Mild              |
| [ Hyperplasia TGLS = 1-7 ]                 |                           |                            |                   |
| * Pancreas                                 |                           | Atrophy                    | Moderate          |
| * Pituitary Gland                          | Pars Distalis             | Adenoma                    |                   |
| * Testes                                   | Bilateral, Interstit Cell | Adenoma                    |                   |
| * Thyroid Gland                            | C Cell                    | Carcinoma                  |                   |
| [ Carcinoma TGLS = 3-3 ]                   |                           |                            |                   |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 59

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101436

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 60                      **TRT#:** 3                      **SEX:** Male                      **DAY ON TEST:** 676  
**DOSE:** 10 MG/KG                      **DISP:** Moribund Sacrifice                      **HISTO:** 101344

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Kupffer Cell	Pigmentation	Moderate
	[ Hepatodiaphragmatic Nodule TGLS = 5-21 ]		
	[ Leukemia Mononuclear TGLS = 4-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Moderate
* Lymph Node, Mesenteric		Pigmentation	Mild
	[ Pigmentation TGLS = 6-5 ]		
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 1-8 ]		
Mesentery		Mesothelioma Malignant	
	Note: MESOTHELIOMA IS PRESENT ON SLIDES 7, 7-1, AND 22.		
	[ Mesothelioma Malignant TGLS = 2-22 ]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 60	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 676
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 101344

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 7-1 ]

* Preputial Gland	Inflammation	Chronic, Mild
* Spleen	Fibrosis	Mild
	Hematopoietic Cell Proliferation	Mild
	Leukemia Mononuclear	

[ Hematopoietic Cell Proliferation TGLS = 3-23 ]

[ Leukemia Mononuclear TGLS = 3-23 ]

* Stomach, Glandular	Erosion	Moderate
Note: EROSION IS MOST PRONOUNCED ON SLIDE 24 STOMACH SECTION.		
* Testes	Bilateral, Interstit Cell	Adenoma
* Thyroid Gland	C Cell	Adenoma
		Multiple

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PRIMARY CAUSE OF DEATH	- Mesentery	Mesothelioma Malignant
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis	Adenoma;Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 61

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101437

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Leukemia Mononuclear	Moderate
* Adrenal Medulla		Hyperplasia Pheochromocytoma Malignant	Mild
Note: EXCESSIVE HEMORRHAGE AND THROMBOSIS ASSOCIATED WITH THE PHEOCHROMOCYTOMA. [ Pheochromocytoma Malignant TGLS = 6-10 ]			
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Moderate
[ Hyperplasia TGLS = 9-6 ] [ Leukemia Mononuclear TGLS = 9-6 ]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5-27 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 7-5 ]			
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-21 ]			
Mesentery	Fat	Necrosis	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:13

**First Dose M/F:** NA / NA

**Lab:** SRI

**ANIMAL ID:** 61

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101437

**ORGAN AND ACCOUNTABLE SITE STATUS**

Note: MODERATE AMOUNT OF FIBROSIS ASSOCIATED WITH THE FAT NECROSIS; NOT TABULATED.

[ Necrosis TGLS = 4-22,8-23 ]

* Nose		Foreign Body Inflammation	Chronic, Mild
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 12-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma Squamous Cell Papilloma	
[ Fibroma TGLS = 10-24 ]			
[ Squamous Cell Papilloma TGLS = 11-25 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-26 ]			
* Testes	Germinal Epith Interstit Cell	Atrophy Hyperplasia	Mild Mild
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 62

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 593

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98245

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
* Brain		Compression	Marked
[ Compression TGLS = 2-1 ]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
	Kupffer Cell	Pigmentation	Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Stomach, Glandular		Cyst	Moderate
Note: THE "CYST" IS AN EPITHELIAL INCLUSION CYST; MORPHOLOGY NOT AVAILABLE ON TDMS.			
[ Cyst TGLS = 4-21 ]			
* Thyroid Gland	C Cell	Adenoma	

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 62

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 593

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98245

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 63

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101438

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Mammary Gland	* Nose	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

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

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Ganglioneuroma	
[ Ganglioneuroma TGLS = 5-22 ]			
* Bone Marrow		Leukemia Mononuclear	
* Harderian GI			
Note: MULTIFOCAL CYSTIC DILATATION OF ONE HARDERIAN GLAND; CONSIDERED INCIDENTAL AND NOT TABULATED.			
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Pancreatic	Leukemia Mononuclear	
[ Hyperplasia TGLS = 6-3 ]			
[ Leukemia Mononuclear TGLS = 4-7 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLS = 2-21 ]			
* Pancreas	Acinus	Adenoma	
		Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 63	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 101438
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-6 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-7 ]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 64

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 593

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98246

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Marked
[ Compression TGLS = 4-1 ]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Carcinoma	
[ Carcinoma TGLS = 1-21 ]			
* Kidney		Nephropathy	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 2-8 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Testes	Interstit Cell	Adenoma	
[ Adenoma TGLS = 8-7 ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

- Intestine Large, Colon Carcinoma

**CONTRIBUTORY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 65

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101439

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
Lymph Node	Mediastinal	Ectasia	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Mild
[ Ectasia TGLS = 3-3 ]			
[ Hyperplasia TGLS = 3-3 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Mild
	Acinus	Hyperplasia	Focal, Mild
Note: FOCAL HYPERPLASIA IS ON SLIDE 4 ALONGSIDE DUODENUM.			
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 65	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 101439
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 4-1 ]			
* Prostate		Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-7 ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 66

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 571

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 98226

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland
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**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

**OBSERVATIONS**

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 6-6 ]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-7 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
	Note: ACINAR HYPERPLASIA IS ON SLIDE 4.		
* Prostate	Epithelium	Hyperplasia	Minimal
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
* Spleen		Hemorrhage	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 66	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 571
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 98226

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hemorrhage TGLS = 4-21 ]		Leukemia Mononuclear
[ Leukemia Mononuclear TGLS = 3-6,3-21 ]		
* Testes	Bilateral, Interstit Cell	Adenoma
[ Adenoma TGLS = 7-7 ]		

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 67

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101440

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

**MISSING**

* Lymph Node, Mandibular	* Thymus
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**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia Pheochromocytoma Malignant	Moderate
[ Pheochromocytoma Malignant TGLS = 4-22 ]			
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Edema	Moderate
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[ Hyperplasia TGLS = 5-6 ]			
[ Leukemia Mononuclear TGLS = 5-6 ]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Ectasia	Marked
		Leukemia Mononuclear	
[ Ectasia TGLS = 3-21 ]			
[ Leukemia Mononuclear TGLS = 3-21 ]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 67	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 101440
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-1 ]			
* Prostate		Inflammation	Chronic, Moderate
[ Inflammation TGLS = 2-7-1 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-6 ]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
[ Adenoma TGLS = 7-7 ]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 703

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 101345

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Adrenal Cortex	* Adrenal Medulla	* Lymph Node, Mandibular
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Harderian Gland		Inflammation	Chronic, Moderate
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Schwannoma Malignant	Metastatic (Mesentery)
[ Schwannoma Malignant TGLS = 7-24 ]			
* Intestine Small, Duodenum		Schwannoma Malignant	Metastatic (Mesentery)
[ Schwannoma Malignant TGLS = 6-23 ]			
* Kidney	Renal Tubule	Dilatation	Moderate
		Nephropathy	Mild
* Lung		Schwannoma Malignant	Metastatic (Mesentery)
* Lymph Node, Mesenteric		Schwannoma Malignant	Metastatic (Mesentery)
[ Schwannoma Malignant TGLS = 5-5,10-5 ]			
* Mammary Gland		Hyperplasia	Moderate
Mesentery		Schwannoma Malignant	
[ Schwannoma Malignant TGLS = 3-21,4-22,8-25 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
* Stomach, Glandular		Ulcer	Mild
[ Ulcer TGLS = 9-4 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 68	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 703
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 101345

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 2-7 ]	Bilateral, Interstit Cell	Adenoma
* Thyroid Gland	C Cell	Adenoma

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**PRIMARY CAUSE OF DEATH** - Mesentery Schwannoma Malignant

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Animal Note: ADRENAL GLANDS ARE OBSCURED BY THE MESENTERIC SCHWANNOMA (SLIDE 10).

Animal Note: METASTATIC SCHWANNOMA ALSO INVOLVES STOMACH, EPIDIDYMIS, CECUM, PANCREAS, PROSTA TE, SEMINAL VESICLE, MEDIASTINUM, AND URINARY BLADDER.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 101441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Degeneration	Cystic, Moderate
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Ectasia	Moderate
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-7 ]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 70

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101442

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
	[ Hepatodiaphragmatic Nodule TGLS = 3-22 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 1-23 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 5-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Cyst Epithelial Inclusion	

Note: THE CYST CONTAINS PROTEINACEOUS MATERIAL AND DEGENERATED INFLAMMATORY CELLS. IT IS LINED WITH BASOPHILIC STRATIFIED EPITHELIUM SUGGESTIVE OF A SALIVARY

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 70

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101442

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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DUCT.

[ Cyst Epithelial Inclusion TGLS = 4-21 ]

\* Spleen

Leukemia Mononuclear

\* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Mild

[ Adenoma TGLS = 2-7 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 71

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 621

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98749

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
		[ Hyperplasia TGLS = 2-8 ]	
* Pancreas		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
		[ Adenoma TGLS = 5-1 ]	
		[ Leukemia Mononuclear TGLS = 5-1 ]	
* Preputial Gland		Carcinoma	
		[ Carcinoma TGLS = 1-21 ]	
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis	Hyperplasia	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 71	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 621 <b>HISTO:</b> 98749
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 7-23 ] [ Inflammation TGLS = 7-23 ]	Inflammation	Chronic, Marked
* Spleen [ Leukemia Mononuclear TGLS = 4-22 ]	Leukemia Mononuclear	
* Testes [ Adenoma TGLS = 3-7 ]	Interstit Cell Adenoma	

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PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Preputial Gland Carcinoma

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 72

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101443

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Ectasia	Moderate
		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
	[ Fibroadenoma TGLS = 1-21 ]		
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 5-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
	[ Fibroma TGLS = 2-22 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 72	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 101443

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 4-7 ]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 73

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101444

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
* Lymph Node, Mesenteric		Ectasia	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
		[ Fibroadenoma TGLS = 2-21 ]	
		[ Hyperplasia TGLS = 1-8 ]	
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Mild
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		[ Adenoma TGLS = 6-1 ]	
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Mild
		[ Cyst TGLS = 3-8 ]	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 73	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 731 <b>HISTO:</b> 101444
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate	Epithelium	Adenoma Hyperplasia Inflammation	Mild Chronic, Mild
* Testes [ Adenoma TGLS = 4-7 ]	Bilateral, Interstit Cell	Adenoma	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 74

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 716

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 102521

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Marked
* Eye	Cornea	Inflammation	Chronic, Minimal
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
		Nephropathy	Minimal
* Liver	Centrilobular	Necrosis	Mild
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 4-23,5-24 ]			
* Pancreas		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 9-1 ]			
* Preputial Gland		Carcinoma	
		Inflammation	Chronic, Mild
[ Carcinoma TGLS = 2-22,3-22-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin		Cyst Epithelial Inclusion	
[ Cyst Epithelial Inclusion TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 74	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 716 <b>HISTO:</b> 102521
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 6-7 ]	Bilateral, Interstit Cell	Adenoma
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PRIMARY CAUSE OF DEATH	- Preputial Gland Carcinoma
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 75

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101445

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Lymph Node, Mandibular	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
[ Inflammation TGLS = 3-7-1 ]			
* Skin		Cyst Epithelial Inclusion	
	Subcut Tiss	Lipoma	
[ Cyst Epithelial Inclusion TGLS = 5-22 ]			
[ Lipoma TGLS = 1-21 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 75	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 101445

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 2-7 ]	Interstit Cell	Adenoma
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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 76

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 542

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 97702

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Minimal
* Brain		Carcinoma	Metastatic (Pituitary Gland)
		Compression	Mild
			[ Carcinoma TGLS = 5-1 ]
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked
* Lung		Edema	Moderate
			[ Edema TGLS = 3-2 ]
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mediastinal	Pigmentation	Mild
			[ Hyperplasia TGLS = 2-3 ]
			[ Pigmentation TGLS = 2-3 ]
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
Oral Mucosa			
			Note: MODERATE SQUAMOUS HYPERPLASIA OF ORAL MUCOSA ON SLIDE 9-1 IN 1ST NASAL SECTION; NOT TABULATED.
* Pituitary Gland	Pars Distalis	Carcinoma	
			[ Carcinoma TGLS = 4-1 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 76	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 542 <b>HISTO:</b> 97702
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate	Inflammation	Chronic, Moderate
* Spleen	Hematopoietic Cell Proliferation	Minimal
	Pigmentation	Moderate
* Stomach, Forestomach	Edema	Moderate
	Erosion	Minimal
	Inflammation	Chronic, Mild
* Stomach, Glandular	Edema	Moderate
	Inflammation	Chronic, Mild

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**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Carcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 77

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101446

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Malignant	
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Carcinoma	
[ Carcinoma TGLS = 4-21 ]			
* Kidney		Inflammation	Chronic, Moderate
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
[ Hyperplasia TGLS = 5-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 77	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 731 <b>HISTO:</b> 101446
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 2-7 ] * Thyroid Gland	C Cell	Hyperplasia	Moderate
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<b>PRIMARY CAUSE OF DEATH</b>	-		
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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 617

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 98750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Thyroid Gland	Tongue	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain	Neuron	Necrosis	Minimal
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
		[ Leukemia Mononuclear TGLS = 4-6 ]	
		[ Vacuolization Cytoplasmic TGLS = 4-6 ]	
* Lung		Leukemia Mononuclear	
Lymph Node	Renal	Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 5-21 ]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 6-5 ]	
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 78

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 617

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98750

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Adenoma TGLS = 7-1 ]

* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis	Hyperplasia	Moderate
	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
		Ulcer	Marked

Note: MILDLY CYSTIC HAIR FOLLICLES IN APPLICATION SITE SKIN; NOT CONSIDERED SIGNIFICANT.

[ Hyperplasia TGLS = 8-23 ]

[ Ulcer TGLS = 8-23 ]

* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
		Necrosis	Moderate

[ Hematopoietic Cell Proliferation TGLS = 1-22 ]

[ Leukemia Mononuclear TGLS = 1-22 ]

[ Necrosis TGLS = 2-22 ]

* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Mild
		Ulcer	Moderate

[ Ulcer TGLS = 10-4,10-25 ]

* Stomach, Glandular		Erosion	Minimal
* Testes	Germinal Epith	Atrophy	Mild
	Interstit Cell	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 79

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 654

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101346

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular                      Peripheral Nerve

**OBSERVATIONS**

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
[ Infiltration Cellular TGLS = 5-22 ]			
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Mild
[ Hemorrhage TGLS = 3-3 ]			
[ Hyperplasia TGLS = 3-3 ]			
[ Pigmentation TGLS = 3-3 ]			
* Pancreas		Mixed Tumor Malignant	
[ Mixed Tumor Malignant TGLS = 2-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 79	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 654 <b>HISTO:</b> 101346
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Epidermis, SOA SOA	Hyperplasia Inflammation	Minimal Chronic, Minimal
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Minimal

[ Adenoma TGLS = 1-7 ]

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**PRIMARY CAUSE OF DEATH** - Pancreas Mixed Tumor Malignant

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 80

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101447

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Salivary Glands	* Seminal Vesicle	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked
	[ Hyperplasia TGLS = 2-6 ]		
	[ Vacuolization Cytoplasmic TGLS = 2-6 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 3-2 ]		
* Lymph Node, Mesenteric		Pigmentation	Moderate
* Mammary Gland		Hyperplasia	Marked
	[ Hyperplasia TGLS = 1-8 ]		
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 4-1 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 80	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 731 <b>HISTO:</b> 101447
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Skin	Epidermis, SOA SOA	Hyperplasia Inflammation	Minimal Chronic, Minimal
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach [ Ulcer TGLS = 6-4 ]		Ulcer	Marked
* Stomach, Glandular		Erosion	Mild
* Testes	Germinal Epith	Atrophy	Moderate
* Thyroid Gland	Follicle	Cyst	Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 81

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 522

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 97703

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Intestine Large, Cecum		Edema	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Angiectasis	Marked
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[ Angiectasis TGLS = 3-6 ]		
	[ Leukemia Mononuclear TGLS = 3-6,4-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Marked
		Leukemia Mononuclear	
	[ Infiltration Cellular TGLS = 5-2 ]		
	[ Leukemia Mononuclear TGLS = 5-2 ]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 9-3 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 81	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 522
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 97703

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Leukemia Mononuclear TGLS = 1-7 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Cyst	Moderate
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[ Adenoma TGLS = 6-1 ]			
* Skin	Epidermis	Hyperplasia	Marked
		Ulcer	Moderate
Note: ULCER APPEARED TO BE MISSED IN PLANE OF SECTION ON SLIDE 22.			
[ Hyperplasia TGLS = 7-21,8-22 ]			
[ Ulcer TGLS = 7-21 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-6 ]			
* Testes	Germinal Epith	Atrophy	Moderate
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 82

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 575

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98227

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Lymph Node, Mandibular	* Thymus
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**OBSERVATIONS**

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Necrosis	Focal, Mild
[ Hyperplasia TGLS = 4-6 ]			
[ Leukemia Mononuclear TGLS = 4-6 ]			
* Lung		Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
[ Infiltration Cellular TGLS = 6-2 ]			
[ Leukemia Mononuclear TGLS = 6-2 ]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5-3 ]			
[ Leukemia Mononuclear TGLS = 2-7 ]			
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 82	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 575 <b>HISTO:</b> 98227
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pituitary Gland [ Adenoma TGLS = 7-1 ]	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Mild
* Spleen [ Leukemia Mononuclear TGLS = 3-6 ]		Leukemia Mononuclear	
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
* Testes	Interstit Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 83

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101448

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adren Medulla			
Note: CYST CONTAINING PROTEIN-LIKE MATERIAL AND RED BLOOD CELLS; MORPHOLOGY NOT AVAILABLE ON TDMS.			
* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
		Metaplasia	Osseous, Mild
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Skin		Cyst Epithelial Inclusion	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 83	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 101448

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Subcut Tiss	Fibroma	
	[ Cyst Epithelial Inclusion TGLS = 1-21 ]		
	[ Fibroma TGLS = 2-22 ]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	[ Adenoma TGLS = 3-7 ]		
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 84

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101449

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Brain		Compression	Moderate
[ Compression TGLS = 2-1 ]			
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
[ Leukemia Mononuclear TGLS = 4-6 ]		Leukemia Mononuclear	
* Lung		Hemorrhage	Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-21 ]			
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 84	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 101449

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Stomach, Forestomach

Diverticulum

Note: TGL 5 INVOLVES FORESTOMACH INSTEAD OF GLANDULAR STOMACH.

[ Diverticulum TGLS = 5-22 ]

\* Testes

Germinal Epith

Atrophy

Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 603

DOSE: 10 MG/KG

DISP: Natural Death

HISTO: 98673

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Lung		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-2 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 4-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
[ Inflammation TGLS = 2-7-1 ]			
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
[ Adenoma TGLS = 1-7 ]			
* Thyroid Gland	C Cell	Adenoma	
Tissue NOS		Hemangioma	
[ Hemangioma TGLS = 5-21 ]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 86

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101450

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hyperplasia	Moderate Fatty, Minimal Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Compression Hydrocephalus	Moderate Mild
* Harderian Gland			
Note: CYSTICALLY DILATED ALVEOLI IN ONE HARDERIAN GLAND; CONSIDERED INCIDENTAL AND NOT TABULATED.			
* Heart		Cardiomyopathy	Marked
* Intestine Small, Duodenum	Epithelium	Hyperplasia	Moderate
[ Hyperplasia TGLS = 6-4 ]			
* Islets, Pancreatic		Adenoma	
[ Adenoma TGLS = 4-7 ]			
* Kidney		Nephropathy	Marked
* Liver	Hepatocyte	Hepatodiaphragmatic Nodule Vacuolization Cytoplasmic	Moderate
[ Hepatodiaphragmatic Nodule TGLS = 10-21 ]			
* Lymph Node, Mesenteric		Hemorrhage Pigmentation	Minimal Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 86	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 101450
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Nose	Respirat Epith	Foreign Body Hyperplasia Inflammation	Moderate Chronic, Moderate
* Pancreas		Atrophy	Marked
* Pituitary Gland [ Adenoma TGLS = 9-1 ]	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Moderate
* Stomach, Forestomach	Epithelium	Edema Hyperplasia Ulcer	Marked Marked Marked
[ Ulcer TGLS = 11-22 ]			
* Testes	Interstit Cell Germinal Epith	Adenoma Atrophy	Moderate
[ Adenoma TGLS = 2-7 ]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 87

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101451

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hepatocellular Adenoma	
		Hyperplasia	Mild
		Leukemia Mononuclear	
	[ Hepatocellular Adenoma TGLS = 5-21 ]		
	[ Leukemia Mononuclear TGLS = 4-6,4-22 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric			
	[ Hyperplasia TGLS = 6-5 ]		
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 1-8 ]		
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 7-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 87	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 101451
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen [ Leukemia Mononuclear TGLS = 3-6 ]		Inflammation Leukemia Mononuclear	Chronic, Mild
* Testes [ Adenoma TGLS = 2-7 ]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	Follicle	Cyst	Moderate

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 88

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101452

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 2-8 ]			
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Preputial Gland		Adenoma	
[ Adenoma TGLS = 1-8 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
* Stomach, Forestomach		Squamous Cell Papilloma	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 88	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 101452

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Squamous Cell Papilloma TGLS = 5-21 ]

\* Testes

Bilateral, Interstit Cell

Adenoma

[ Adenoma TGLS = 3-7 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 89

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101453

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Inflammation	Chronic, Minimal
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Moderate
[ Atrophy TGLS = 2-7 ]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Adenoma	
		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 90

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101454

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
* Lung		Leukemia Mononuclear	
		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
		Metaplasia	Osseous, Moderate
Note: OSSEOUS METAPLASIA IS WITHIN THE ALVEOLAR BRONCHIOLAR ADENOMA. [ Alveolar/Bronchiolar Adenoma TGLS = 11-2 ]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas			
Note: PANCREAS IS PRESENT ON SLIDE 21.			
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 90	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 101454
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5-23 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Leukemia Mononuclear	
		Ulcer	Mild
[ Hyperplasia TGLS = 9-4,13-24 ]			
[ Leukemia Mononuclear TGLS = 8-4 ]			
[ Ulcer TGLS = 13-24 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 3-7 ]			
* Thymus		Leukemia Mononuclear	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 91

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101455

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	

[ Leukemia Mononuclear TGLS = 1-6 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 91

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101455

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Testes

Bilateral, Interstit Cell

Adenoma

[ Adenoma TGLS = 2-7 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 92

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101456

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hypertrophy	Focal, Mild
* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
	[ Cataract TGLS = 4-44 ]		
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Moderate
	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Epidermis	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 92	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 101456
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 1-21 ] [ Ulcer TGLS = 1-21 ]		Ulcer	Moderate
* Testes [ Adenoma TGLS = 2-7 ]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland [ Adenoma TGLS = 3-3 ]	C Cell Follicle	Adenoma Cyst	Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 101457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Moderate Fatty, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Compression	Mild
[ Compression TGLS = 2-1 ]			
* Heart		Cardiomyopathy Inflammation	Mild Chronic, Moderate
Note: THE INFLAMMATION IS IN THE ATRIA.			
* Kidney		Inflammation Nephropathy	Chronic, Mild Moderate
* Liver	Bile Duct	Basophilic Focus Hyperplasia Mixed Cell Focus	Minimal
* Lung		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Moderate
* Nose		Foreign Body Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Angiectasis	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 93	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 101457
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 3-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-7 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 94	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 444
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 96128

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

\* Lymph Node, Mandibular

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**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Compression	Moderate
[ Compression TGLS = 3-1 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

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**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 95

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101458

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
	Acinus	Hyperplasia	Focal, Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-7 ]		
* Thyroid Gland	C Cell	Adenoma	

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 96

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101459

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Minimal
* Harderian Gland		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[ Basophilic Focus TGLS = 5-6 ]			
[ Clear Cell Focus TGLS = 5-6 ]			
[ Hepatodiaphragmatic Nodule TGLS = 3-23 ]			
* Lung		Hemorrhage	Mild
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
Note: THE FIBROADENOMA IS ON SLIDE 8.			
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLS = 2-22 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 96	<b>TRT#:</b> 3 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 101459
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Intermed	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
	[ Angiectasis TGLS = 4-1 ]		
	[ Hyperplasia TGLS = 4-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Skin		Keratoacanthoma	
	[ Keratoacanthoma TGLS = 1-21 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 97

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101460

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

* Adrenal Medulla	* Lymph Node, Mandibular
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**OBSERVATIONS**

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-6,6-6,6-24 ]		
* Lung	Alveolar Epith	Hemorrhage	Mild
		Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[ Hemorrhage TGLS = 7-23 ]		
	[ Hyperplasia TGLS = 7-23 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mesentery	Fat	Necrosis	Mild
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
	[ Fibrosis TGLS = 4-22 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 97	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 101460

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Leukemia Mononuclear TGLS = 3-6 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-7 ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 673

DOSE: 10 MG/KG

DISP: Natural Death

HISTO: 101347

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Mammary Gland	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Thrombosis	Marked
[ Thrombosis TGLS = 9-23 ]			
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: THE HYPERPLASTIC ALVEOLAR EPITHELIAL CELLS ARE ENLARGED AND VACUOLATED.			
[ Hyperplasia TGLS = 10-24 ]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 8-3 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 6-5 ]			
* Pancreas		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5-22 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 98	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 673
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 101347

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Epidermis	Hyperplasia Ulcer	Marked Moderate
	[ Hyperplasia TGLS = 1-21 ]		
	[ Ulcer TGLS = 1-21 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 4-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia Ulcer	Moderate Moderate
	[ Ulcer TGLS = 11-4 ]		
* Stomach, Glandular		Erosion Ulcer	Moderate Moderate
	[ Erosion TGLS = 11-4 ]		
	[ Ulcer TGLS = 11-4 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 3-7 ]		
* Thymus		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 7-3 ]		
* Thyroid Gland	Follicle	Cyst	Moderate
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 99

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 682

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101348

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex	Degeneration	Fatty, Mild
* Adrenal Medulla	Hyperplasia	Mild
* Bone Marrow	Leukemia Mononuclear	
* Brain	Compression	Moderate
[ Compression TGLS = 13-1 ]		
* Eye	Leukemia Mononuclear	
* Harderian Gland	Leukemia Mononuclear	
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Hepatocellular Adenoma	
	Infiltration Cellular	Mixed Cell, Moderate
	Leukemia Mononuclear	
	Regeneration	Mild
Note: REGENERATION ASSOCIATED WITH MONONUCLEAR CELL LEUKEMIA.		
[ Infiltration Cellular TGLS = 11-6 ]		
[ Leukemia Mononuclear TGLS = 11-6 ]		
[ Regeneration TGLS = 17-27 ]		
* Lung	Infiltration Cellular	Histiocyte, Mild
	Leukemia Mononuclear	
[ Infiltration Cellular TGLS = 15-25,16-26 ]		
Lymph Node	Pancreatic	
[ Leukemia Mononuclear TGLS = 6-7 ]		
	Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 99	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 682
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 101348

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Lymph Node, Mesenteric [ Leukemia Mononuclear TGLS = 12-5 ]		Leukemia Mononuclear	
* Mammary Gland [ Fibroadenoma TGLS = 1-21 ]		Fibroadenoma Hyperplasia	Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland [ Adenoma TGLS = 14-1 ]	Pars Distalis	Adenoma	
* Prostate	Epithelium	Hyperplasia Inflammation	Minimal Chronic, Moderate
Skeletal Muscle [ Leukemia Mononuclear TGLS = 10-24,10-24-1 ]		Leukemia Mononuclear	
* Skin [ Fibroma TGLS = 2-22 ]	Subcut Tiss Epidermis, SOA	Fibroma Hyperplasia	Minimal
* Spleen [ Fibrosis TGLS = 7-23 ] [ Hematopoietic Cell Proliferation TGLS = 8-6,8-23 ] [ Leukemia Mononuclear TGLS = 8-6,8-23 ]		Fibrosis Hematopoietic Cell Proliferation Leukemia Mononuclear	Marked Mild
* Stomach, Glandular		Edema	Moderate
* Testes [ Adenoma TGLS = 4-7 ]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 100

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 485

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 96129

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 2-5 ]			
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Skin	Sebaceous GI	Carcinoma	
[ Carcinoma TGLS = 1-21 ]			
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	Follicle	Cyst	Moderate

**PRIMARY CAUSE OF DEATH**

- Skin Sebaceous GI Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 101

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101399

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

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

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Ectasia	Marked
	Mediastinal	Hemorrhage	Mild
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Mild
[ Ectasia TGLS = 3-7 ]			
[ Hyperplasia TGLS = 5-3 ]			
* Lymph Node, Mesenteric		Ectasia	Mild
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 1-21 ]			
* Nose		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 101	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 731 <b>HISTO:</b> 101399
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-7 ]			

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 102

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101400

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[ Hyperplasia TGLS = 2-6 ]			
[ Leukemia Mononuclear TGLS = 2-6 ]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 102	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 731 <b>HISTO:</b> 101400
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell Germinal Epith	Adenoma Atrophy	Minimal
[ Adenoma TGLS = 1-7 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 103

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 703

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101332

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Gliosis	Mild
		Leukemia Mononuclear	
* Eye	Retina	Degeneration	Minimal
* Heart		Cardiomyopathy	Moderate
		Thrombosis	Marked
[ Thrombosis TGLS = 10-5 ]			
* Intestine Large, Cecum		Edema	Moderate
* Kidney	Renal Tubule	Necrosis	Moderate
[ Necrosis TGLS = 5-21 ]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[ Hyperplasia TGLS = 7-6 ]			
[ Leukemia Mononuclear TGLS = 7-6 ]			
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-7 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 103

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 703

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101332

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Lymph Node, Mesenteric [ Leukemia Mononuclear TGLS = 8-5 ]		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	Epidermis	Hyperplasia	Marked
	Epidermis, SOA	Hyperplasia	Minimal
		Inflammation	Chronic, Marked
[ Hyperplasia TGLS = 12-24 ]			
[ Inflammation TGLS = 12-24 ]			
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-22 ]			
* Stomach, Forestomach		Edema	Marked
	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
[ Ulcer TGLS = 11-4,11-23 ]			
* Stomach, Glandular		Erosion	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-7 ]			
* Thyroid Gland	C Cell	Adenoma	
	Follicle	Cyst	Moderate
	Follicular Cel	Hyperplasia	Mild
[ Cyst TGLS = 9-3 ]			

**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 104

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 444

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 96126

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Brain		Hemorrhage	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hemorrhage	Mild
	Hepatocyte	Infiltration Cellular	Mixed Cell, Moderate
		Vacuolization Cytoplasmic	Mild
	[ Hemorrhage TGLS = 4-6,4-21 ]		
	[ Infiltration Cellular TGLS = 3-21 ]		
	[ Vacuolization Cytoplasmic TGLS = 3-21 ]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Pigmentation	Mild
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Pigmentation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 104	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 444
	<b>DOSE:</b> 20 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 96126

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[ Adenoma TGLS = 8-7 ]			

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PRIMARY CAUSE OF DEATH	- UNCERTAIN
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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 105

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101401

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Minimal
* Brain		Compression	Moderate
[ Compression TGLS = 3-1 ]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolar Epith	Hyperplasia	Moderate
[ Hyperplasia TGLS = 5-2 ]			
* Lym Node Mand			
Note: MANDIBULAR LYMPH NODE IS PRESENT.			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Prostate		Inflammation	Chronic, Moderate
* Skin	Epidermis, SOA	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 105	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 101401
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes	SOA Interstit Cell Germinal Epith Interstit Cell	Inflammation Adenoma Atrophy Hyperplasia	Chronic, Minimal  Minimal Minimal
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[ Adenoma TGLS = 2-7 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 106

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 615

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98748

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Lymph Node, Mandibular	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Brain		Compression	Moderate
		Hemorrhage	Mild
[ Compression TGLS = 6-1 ]			
* Eye	Cornea	Hyperplasia	Mild
	Cornea	Inflammation	Chronic, Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Small, Duodenum	Epithelium	Hyperplasia	Moderate
[ Hyperplasia TGLS = 5-4 ]			
* Kidney		Nephropathy	Moderate
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Marked
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Hemorrhage	Mild
	Pancreatic	Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 2-7 ]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 7-21 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 106	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 615 <b>HISTO:</b> 98748
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach	Epithelium	Pigmentation Hyperplasia Perforation Ulcer	Mild Moderate Marked
Note: ADHESIONS BETWEEN FORESTOMACH AND LIVER ON SLIDE 22 RESULTING FROM FORESTOMACH PERFORATION. [ Perforation TGLS = 4-22 ]			
* Stomach, Glandular		Ulcer	Mild
* Testes	Germinal Epith Interstit Cell	Atrophy Hyperplasia	Moderate Minimal

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PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Stomach;Forestomach Perforation

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 107

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101402

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Ectasia	Mild
		Pigmentation	Mild
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-21 ]			
* Nose		Foreign Body	
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[ Adenoma TGLS = 3-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-7 ]			
* Thyroid Gland	C Cell	Adenoma	

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 108

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101403

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
	Subcut Tiss	Schwannoma Malignant	
	[ Schwannoma Malignant TGLS = 2-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
	[ Adenoma TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 108

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101403

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 663

DOSE: 20 MG/KG

DISP: Natural Death

HISTO: 101333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

\* Intestine Small, Duodenum

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
[ Leukemia Mononuclear TGLS = 2-6 ]			
* Lung		Infiltration Cellular Inflammation Metaplasia	Histiocyte, Minimal Chronic, Mild Osseous, Mild
[ Inflammation TGLS = 6-2 ]			
Lymph Node	Mediastinal Mediastinal	Leukemia Mononuclear Pigmentation	Moderate
[ Leukemia Mononuclear TGLS = 5-3 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 8-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Mild
* Skin	Epidermis	Hyperplasia	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 109	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 663 <b>HISTO:</b> 101333
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Epidermis, SOA	Hyperplasia Inflammation	Minimal Chronic, Marked
[ Hyperplasia TGLS = 7-21 ] [ Inflammation TGLS = 7-21 ]			
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell Germinal Epith	Adenoma Atrophy	Moderate
[ Adenoma TGLS = 1-7 ]			
* Thymus		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-3 ]			

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PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 110

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101404

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Prostate		Inflammation	Chronic, Minimal
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
* Stomach, Glandular	Glands	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-7 ]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 111

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101405

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
* Brain		Compression	Marked
[ Compression TGLS = 3-1 ]			
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 2-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 5-23 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 111	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 101405
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 4-22 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin		Keratoacanthoma	
[ Keratoacanthoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Testes	Germinal Epith	Atrophy	Mild

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 20 MG/KG

DISP: Terminal Sacrifice

HISTO: 101406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Malignant	
[ Pheochromocytoma Malignant TGLS = 3-10 ]			
* Brain		Compression	Moderate
[ Compression TGLS = 4-1 ]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Prostate		Inflammation	Chronic, Moderate
* Skin	Epidermis, SOA	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 112

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101406

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 652

DOSE: 20 MG/KG

DISP: Natural Death

HISTO: 101334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                          |                          |
|--------------------------|-----------------------------|--------------------------|--------------------------|
| * Adrenal Cortex         | * Bone                      | * Brain                  | * Epididymis             |
| * Esophagus              | * Eye                       | * Harderian Gland        | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic     |
| * Nose                   | * Parathyroid Gland         | * Preputial Gland        | * Salivary Glands        |
| * Seminal Vesicle        | * Thyroid Gland             | * Trachea                | * Urinary Bladder        |

MISSING

- |                          |                 |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

AUTO PRECLUDES DIAG.

- \* Intestine Small, Jejunum

INSUFFICIENT TISSUE

- \* Intestine Large, Rectum

OBSERVATIONS

- |  |               |                            |                     |
|--|---------------|----------------------------|---------------------|
| * Adrenal Medulla                            |               | Hyperplasia                | Moderate            |
|  |               | Leukemia Mononuclear       |                     |
|  |               | Pheochromocytoma Malignant |                     |
| [ Pheochromocytoma Malignant TGLS = 6-26 ]   |               |                            |                     |
| * Bone Marrow                                |               | Leukemia Mononuclear       |                     |
| * Brain                                      |               |                            |                     |
| Note: TGLS 17 - NO CORRESPONDING LESION.     |               |                            |                     |
| * Heart                                      |               | Thrombosis                 | Moderate            |
| * Kidney                                     |               | Leukemia Mononuclear       |                     |
| [ Leukemia Mononuclear TGLS = 7-27 ]         |               |                            |                     |
| * Liver                                      |               | Leukemia Mononuclear       |                     |
| [ Leukemia Mononuclear TGLS = 9-6 ]          |               |                            |                     |
| * Lung                                       |               | Infiltration Cellular      | Histiocyte, Minimal |
|  |               | Leukemia Mononuclear       |                     |
| [ Infiltration Cellular TGLS = 19-29,20-30 ] |               |                            |                     |
| [ Leukemia Mononuclear TGLS = 14-2 ]         |               |                            |                     |
| Lymph Node                                   | Deep Cervical | Leukemia Mononuclear       |                     |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 113      **TRT#:** 5      **SEX:** Male      **DAY ON TEST:** 652  
**DOSE:** 20 MG/KG      **DISP:** Natural Death      **HISTO:** 101334

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-22 ]		
	[ Leukemia Mononuclear TGLS = 13-24 ]		
	[ Leukemia Mononuclear TGLS = 15-25 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 8-23 ]		
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[ Adenoma TGLS = 16-1 ]		
	[ Leukemia Mononuclear TGLS = 16-1 ]		
* Prostate		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
	[ Inflammation TGLS = 10-7-1 ]		
	[ Leukemia Mononuclear TGLS = 10-7-1 ]		
* Skin	Epidermis	Hyperplasia	Moderate
	Epidermis, SOA	Hyperplasia	Minimal
		Ulcer	Marked
	[ Hyperplasia TGLS = 1-21 ]		
	[ Ulcer TGLS = 1-21 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3-28 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Ulcer	Marked
	[ Ulcer TGLS = 18-4,18-31 ]		
* Stomach, Glandular		Ulcer	Moderate
* Testes	Germinal Epith	Atrophy	Mild
* Thymus		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 12-3 ]		

PRIMARY CAUSE OF DEATH      - Spleen    Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 113

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 652

**DOSE:** 20 MG/KG

**DISP:** Natural Death

**HISTO:** 101334

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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CONTRIBUTORY CAUSE OF DEATH

- Adrenal Medulla Pheochromocytoma Malignant

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 114

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101407

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hyperplasia	Focal, Moderate
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Inflammation	Chronic, Moderate
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Mixed Cell Focus	
* Lung		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 4-3 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-21,2-22 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3-23 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 114	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 20 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 101407

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 5-1 ]

* Prostate		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
* Testes	Germinal Epith	Atrophy	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 115

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 491

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 96127

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Moderate
[ Compression TGLS = 7-1 ]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
[ Nephropathy TGLS = 4-5 ]			
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Marked
Lymph Node	Mediastinal	Hemorrhage	Marked
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Marked
[ Hemorrhage TGLS = 5-3 ]			
[ Hyperplasia TGLS = 5-3 ]			
[ Pigmentation TGLS = 5-3 ]			
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Marked
[ Inflammation TGLS = 3-7-1 ]			
* Salivary Glands		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 115

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 491

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 96127

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Spleen		Necrosis	Mild
* Stomach, Forestomach		Pigmentation	Marked
		Edema	Marked
		Erosion	Mild
* Testes	Epithelium	Hyperplasia	Mild
	Germinal Epith	Atrophy	Moderate
	[ Atrophy TGLS = 2-7 ]		
* Urin Bladder			
	Note: INFUSION ARTIFACT IN URINARY BLADDER.		

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 694

DOSE: 20 MG/KG

DISP: Natural Death

HISTO: 101335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* 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	* Parathyroid Gland	Peripheral Nerve	* Prostate
* Salivary Glands	* Seminal Vesicle	Spinal Cord	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Marked
* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
	[ Cataract TGLS = 6-44 ]		
* Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
	[ Leukemia Mononuclear TGLS = 5-6 ]		
	[ Necrosis TGLS = 5-6 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mesentery		Mesothelioma Malignant	
	Note: MESOTHELIOMA IS PRESENT ON SLIDES 7, 7-1, AND 21.		
	[ Mesothelioma Malignant TGLS = 2-21 ]		
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pancreas		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 116	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 694 <b>HISTO:</b> 101335
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen		Hematopoietic Cell Proliferation Leukemia Mononuclear	Moderate
* Stomach, Glandular [ Erosion TGLS = 8-4 ]		Erosion	Moderate
* Testes [ Adenoma TGLS = 4-7 ]	Interstit Cell Germinal Epith	Adenoma Atrophy	Moderate

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PRIMARY CAUSE OF DEATH	- Mesentery Mesothelioma Malignant
CONTRIBUTORY CAUSE OF DEATH	- Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 20 MG/KG

DISP: Terminal Sacrifice

HISTO: 101408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                          |                             |                          |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Bone                   | * Bone Marrow               | * Brain                  |
| * Epididymis               | * Esophagus              | * Eye                       | * Harderian Gland        |
| * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic     | * Mammary Gland             | * Nose                   |
| * Parathyroid Gland        | * Preputial Gland        | * Prostate                  | * Salivary Glands        |
| * Seminal Vesicle          | * Stomach, Forestomach   | * Stomach, Glandular        | * Thymus                 |
| * Thyroid Gland            | * Trachea                | * Urinary Bladder           |                          |

MISSING

- \* Lymph Node, Mandibular

INSUFFICIENT TISSUE

- \* Intestine Large, Rectum

OBSERVATIONS

- |  |   |                                  |                     |
|--|---|----------------------------------|---------------------|
| * Adrenal Medulla  |   | Pheochromocytoma Benign          |                     |
| * Heart  |   | Cardiomyopathy                   | Moderate            |
| * Kidney   |   | Nephropathy                      | Minimal             |
| * Liver  |   | Basophilic Focus                 |                     |
|  |   | Clear Cell Focus                 |                     |
| * Lung   |   | Hemorrhage                       | Moderate            |
|  |   | Infiltration Cellular            | Histiocyte, Minimal |
|  |   | Inflammation                     | Chronic, Minimal    |
| Note: HEMORRHAGE IS DIFFUSELY WITHIN ALVEOLI AND WITHIN PERIVASCULAR SPACES. |   |                                  |                     |
| * Lymph Node, Mesenteric   |   | Hyperplasia                      | Lymphoid, Mild      |
| * Pancreas   |   | Atrophy                          | Minimal             |
| * Pituitary Gland  | Pars Distalis                           | Hyperplasia                      | Focal, Moderate     |
| * Skin   |   | Squamous Cell Papilloma          |                     |
|  | [ Squamous Cell Papilloma TGLS = 1-21 ] |                                  |                     |
| * Spleen   |   | Hematopoietic Cell Proliferation | Minimal             |
| * Testes   | Bilateral, Interstit Cell               | Adenoma                          |                     |
|  | [ Adenoma TGLS = 3-7 ]                  |                                  |                     |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 117

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101408

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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:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 118

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101409

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Thymus

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Compression	Moderate
		Hydrocephalus	Mild
[ Compression TGLS = 4-1 ]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Marked
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Prostate		Inflammation	Chronic, Moderate
[ Inflammation TGLS = 3-7-1 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 118	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 101409
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin [ Carcinoma TGLS = 1-21 ]	Sebaceous Gl SOA	Carcinoma Inflammation	Chronic, Minimal
* Testes [ Adenoma TGLS = 2-7 ]	Bilateral, Interstit Cell	Adenoma	

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 119

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 686

**DOSE:** 20 MG/KG

**DISP:** Natural Death

**HISTO:** 101336

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Compression	Moderate
[ Compression TGLS = 4-1 ]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
* Lung	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
[ Infiltration Cellular TGLS = 3-2 ]			
[ Inflammation TGLS = 3-2 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8,2-21 ]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 119

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 686

**DOSE:** 20 MG/KG

**DISP:** Natural Death

**HISTO:** 101336

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 120

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101410

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[ Hepatodiaphragmatic Nodule TGLS = 3-22 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
[ Hyperplasia TGLS = 6-23 ]			
Lymph Node	Mediastinal	Ectasia	Marked
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Mild
[ Ectasia TGLS = 4-3 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 120	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 101410
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 4-3 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLS = 2-21 ]			
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[ Adenoma TGLS = 5-1 ]			
* Prostate		Inflammation	Chronic, Minimal
[ Inflammation TGLS = 1-7 ]			
* Skin	Epidermis, SOA	Hyperplasia	Mild
	SOA	Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 121

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101411

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Mild
* Eye	Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[ Hepatodiaphragmatic Nodule TGLS = 4-22 ]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Moderate
[ Hyperplasia TGLS = 7-2 ]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
* Nose		Foreign Body	
* Pancreas		Atrophy	Mild
	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Prostate		Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 121

**TRT#:** 5  
**DOSE:** 20 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 101411

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Skin [ Fibroma TGLS = 1-21 ]	Subcut Tiss	Fibroma	
* Stomach, Forestomach		Ulcer	Mild
* Testes [ Adenoma TGLS = 2-7 ]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Thymoma Benign	
* Thyroid Gland [ Carcinoma TGLS = 3-3 ]	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 122

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 696

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101337

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Thymus	* Trachea	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
		Thrombosis	Marked
[ Thrombosis TGLS = 13-5 ]			
* Kidney	Renal Tubule	Necrosis	Marked
		Nephropathy	Mild
Note: NECROSIS IN LEFT KIDNEY (TGL 3-22) INVOLVES ALL COMPONENTS INCLUDING TUBULES, GLOMERULI, VESSELS AND INTERSTITIUM; MILD NEPHROPATHY INVOLVES RIGHT KIDNEY.			
[ Necrosis TGLS = 3-22 ]			
* Liver	Centrilobular	Hepatodiaphragmatic Nodule	
		Necrosis	Minimal
[ Hepatodiaphragmatic Nodule TGLS = 5-21 ]			
* Lung		Inflammation	Chronic, Mild
Lymph Node	Mediastinal	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 11-3 ]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	
Oral Mucosa		Squamous Cell Carcinoma	
[ Squamous Cell Carcinoma TGLS = 12-9-1 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 122

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 696

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101337

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pancreas [ Cyst TGLS = 4-7 ]		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Forestomach		Edema	Moderate
		Ulcer	Moderate
* Stomach, Glandular		Cyst	Moderate
		Erosion	Mild
Note: STOMACH CYST IS ON SLIDE 23. [ Erosion TGLS = 15-23 ]			
* Testes [ Adenoma TGLS = 2-7 ]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Hemorrhage	Mild
		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

- Oral Mucosa Squamous Cell Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Lymph Node Mediastinal Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 123

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 645

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101338

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Liver
* Nose	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Eye [ Inflammation TGLS = 11-44 ]	Cornea	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Hyperplasia	Lymphoid, Marked
			[ Hemorrhage TGLS = 7-3 ]
			[ Hyperplasia TGLS = 7-3 ]
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Pigmentation	Mild
* Mammary Gland [ Carcinoma TGLS = 4-21 ]		Carcinoma	
Oral Mucosa		Squamous Cell Carcinoma	
		Note: SQUAMOUS CELL CARCINOMA IS PRESENT ON SLIDES 23, 9-1 (WITH NASAL SECTION), AND 24 (WITH TOOTH SECTION).	
			[ Squamous Cell Carcinoma TGLS = 9-23 ]
* Pancreas		Atrophy	Minimal
* Preputial Gland [ Cyst TGLS = 6-8 ]		Cyst	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 123	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 645 <b>HISTO:</b> 101338
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Epidermis, SOA	Cyst Epithelial Inclusion Hyperplasia	Minimal
[ Cyst Epithelial Inclusion TGLS = 5-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Interstit Cell	Adenoma	
Note: ONLY ONE TESTIS IS PRESENT. [ Adenoma TGLS = 2-7 ]			
* Thyroid Gland	C Cell	Adenoma	

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PRIMARY CAUSE OF DEATH	- Oral Mucosa Squamous Cell Carcinoma
CONTRIBUTORY CAUSE OF DEATH	- Mammary Gland Carcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 124

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101412

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	Skeletal Muscle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
		Hydrocephalus	Mild
[ Compression TGLS = 10-1 ]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 8-6 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 9-3 ]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8 ]			
Mesentery		Mesothelioma Malignant	

Note: MESOTHELIOMA IS PRESENT ON SLIDES 7, 7-1, AND 21.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 124	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 20 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 101412

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Mesothelioma Malignant TGLS = 5-21 ]			
* Pancreas	Acinus	Adenoma Atrophy	Mild
[ Atrophy TGLS = 6-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 11-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 7-6 ]			
* Testes	Interstit Cell	Adenoma	
[ Adenoma TGLS = 4-7 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 125

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101413

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Moderate Fatty, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
* Pancreas		Atrophy	Mild
		Cyst	Moderate
* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[ Adenoma TGLS = 2-7 ]			
[ Atrophy TGLS = 3-7 ]			
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 125

**TRT#:** 5  
**DOSE:** 20 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 101413

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**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Carcinoma TGLS = 4-3 ]

C Cell

Carcinoma

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 126

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101414

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

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

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Eye	Cornea	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Carcinoma	
[ Carcinoma TGLS = 2-7 ]			
* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[ Hepatodiaphragmatic Nodule TGLS = 4-21 ]			
* Lung		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
Note: EXTENSIVE NECROSIS OF THE PITUITARY GLAND ADENOMA.			
[ Adenoma TGLS = 6-1 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 126

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101414

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Skin	Epidermis	Hyperplasia	Marked
	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
		Ulcer	Marked
	[ Hyperplasia TGLS = 5-22 ]		
	[ Ulcer TGLS = 5-22 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Germinal Epith	Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 127

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 556

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98166

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Lymph Node, Mandibular	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-10 ]			
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Thrombosis	Moderate
* Intestine Large, Cecum		Edema	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lung		Hemorrhage	Mild
		Leukemia Mononuclear	
[ Hemorrhage TGLS = 11-21 ]			
[ Leukemia Mononuclear TGLS = 7-2 ]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 8-3 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5-5 ]			
* Nose		Foreign Body	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 127	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 556
	<b>DOSE:</b> 20 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 98166

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 10-1 ]			
* Skin	Epidermis	Hyperplasia	Marked
[ Hyperplasia TGLS = 9-22 ]		Ulcer	Marked
[ Ulcer TGLS = 9-22 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-6 ]			
* Stomach, Forestomach		Edema	Mild
* Stomach, Glandular		Ulcer	Mild
[ Ulcer TGLS = 12-4 ]			
* Testes	Interstit Cell	Hyperplasia	Mild
[ Hyperplasia TGLS = 2-7 ]			

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 128

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101415

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Brain		Compression	Moderate
		Hydrocephalus	Mild
[ Compression TGLS = 7-1 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
[ Infiltration Cellular TGLS = 6-24 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
[ Fibroadenoma TGLS = 3-22 ]			
[ Hyperplasia TGLS = 2-21,4-8 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 5-23 ]			
* Pancreas		Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 128	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 101415
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pituitary Gland [ Adenoma TGLS = 8-1 ]	Pars Distalis	Adenoma	Multiple
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Testes	Germinal Epith	Atrophy	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 129

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 563

**DOSE:** 20 MG/KG

**DISP:** Natural Death

**HISTO:** 98225

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Adrenal Medulla		Pheochromocytoma Malignant	
[ Pheochromocytoma Malignant TGLS = 5-22 ]			
* Intestine Large, Cecum		Edema	Moderate
		Hemorrhage	Mild
[ Hemorrhage TGLS = 6-4 ]			
* Islets, Pancreatic		Adenoma	
[ Adenoma TGLS = 4-21 ]			
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Pheochromocytoma Malignant	Metastatic (Adrenal Medulla)
Lymph Node	Pancreatic	Hemorrhage	Mild
	Pancreatic	Hyperplasia	Lymphoid, Moderate
[ Hemorrhage TGLS = 3-7 ]			
[ Hyperplasia TGLS = 3-7 ]			
* Lymph Node, Mesenteric		Hemorrhage	Moderate
		Hyperplasia	Lymphoid, Mild
[ Hemorrhage TGLS = 7-5 ]			
* Mammary Gland		Hyperplasia	Mild
* Pancreas	Acinus	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 129	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 563 <b>HISTO:</b> 98225
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: ACINAR CELL ADENOMA IS ON SLIDE 21 ADJACENT TO ISLET CELL ADENOMA. [ Hemorrhage TGLS = 2-7 ]		Hemorrhage	Moderate
* Pituitary Gland [ Adenoma TGLS = 1-1 ]	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Mild

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**PRIMARY CAUSE OF DEATH** - Adrenal Medulla Pheochromocytoma Malignant

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Animal Note: MODERATE CONGESTION OF LIVER SINUSOIDS AND SPLENIC RED PULP; NOT TABULATED.

Animal Note: SECTION OF TISSUE ON SLIDE 12 RESEMBLING PHEOCHROMOCYTOMA; APPARENT ARTIFACT.

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 130

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 647

**DOSE:** 20 MG/KG

**DISP:** Natural Death

**HISTO:** 101339

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Moderate
* Brain		Compression	Moderate
		Hydrocephalus	Mild
	[ Compression TGLS = 3-1 ]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
* Lung		Hemorrhage	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
* Nose		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-21 ]		
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Pigmentation	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 130

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 647

**DOSE:** 20 MG/KG

**DISP:** Natural Death

**HISTO:** 101339

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 131

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101416

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Lymph Node, Mandibular	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Malignant	
	[ Pheochromocytoma Malignant TGLS = 3-10 ]		
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Pheochromocytoma Malignant	Metastatic (Adrenal Medulla)
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Skin		Cyst Epithelial Inclusion	
	[ Cyst Epithelial Inclusion TGLS = 1-21 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 131

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101416

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 132

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 660

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101340

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

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

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Eye	Cornea	Inflammation	Chronic, Minimal
* Harderian Gland		Inflammation	Chronic, Mild
* Intestine Large, Cecum		Edema	Mild
* Kidney	Transit Epithe	Hyperplasia	Mild
		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Regeneration	Moderate
Note: REGENERATION ASSOCIATED WITH MONONUCLEAR CELL LEUKEMIA.			
			[ Leukemia Mononuclear TGLS = 5-6 ]
			[ Regeneration TGLS = 5-6 ]
* Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
			[ Hemorrhage TGLS = 11-2 ]
			[ Infiltration Cellular TGLS = 11-2 ]
			[ Leukemia Mononuclear TGLS = 11-2 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 132

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 660

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101340

**ORGAN AND ACCOUNTABLE SITE STATUS**

Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 6-7 ]			
[ Leukemia Mononuclear TGLS = 9-3 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 7-5 ]			
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 10-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Mild
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
[ Fibrosis TGLS = 4-21 ]			
[ Leukemia Mononuclear TGLS = 3-21 ]			
* Stomach, Forestomach		Edema	Marked
	Epithelium	Hyperplasia	Mild
		Ulcer	Marked
[ Ulcer TGLS = 12-4,12-22 ]			
* Testes	Germinal Epith	Atrophy	Moderate
[ Atrophy TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 133

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101417

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Compression	Moderate
[ Compression TGLS = 4-1 ]			
* Eye	Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Mixed Cell Focus	
[ Clear Cell Focus TGLS = 2-21 ]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
[ Hyperplasia TGLS = 5-22 ]			
[ Infiltration Cellular TGLS = 5-22 ]			
[ Inflammation TGLS = 5-22 ]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 133	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 101417
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas		Atrophy	Moderate
* Pituitary Gland [ Adenoma TGLS = 3-1 ]	Pars Distalis	Adenoma	
* Prostate		Adenoma Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Testes	Germinal Epith	Atrophy	Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 20 MG/KG

DISP: Terminal Sacrifice

HISTO: 101418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	[ Hepatodiaphragmatic Nodule TGLS = 2-22 ]		
* Lung		Hemorrhage	Mild
		Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Ectasia	Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Minimal
	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Lipoma	

Note: THE LIPOMA (TGL 1-21) CONTAINS EXTENSIVE FIBROUS TISSUE.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 134

**TRT#:** 5  
**DOSE:** 20 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 101418

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Lipoma TGLS = 1-21 ]

* Testes	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	C Cell Follicle	Adenoma Cyst	Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 135

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101419

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
* Brain		Compression	Moderate
[ Compression TGLS = 8-1 ]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
[ Nephropathy TGLS = 5-5,6-5 ]			
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8,3-21 ]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 7-1 ]			
* Preputial Gland		Adenoma	
		Cyst	Moderate
[ Adenoma TGLS = 2-8 ]			
[ Cyst TGLS = 2-8 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 135	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 101419
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate		Inflammation	Chronic, Minimal
* Testes	Interstit Cell Germinal Epith	Adenoma Atrophy	Minimal
[ Adenoma TGLS = 4-7 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 136

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101420

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
Note: APPARENT FIXATION ARTIFACT IN LIVER SECTIONS.			
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Minimal
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstitial Cell	Hyperplasia	Minimal

[ Adenoma TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 137

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 720

**DOSE:** 20 MG/KG

**DISP:** Natural Death

**HISTO:** 102520

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Brain		Compression	Marked
[ Compression TGLS = 5-1 ]			
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
[ Infiltration Cellular TGLS = 4-2 ]			
[ Inflammation TGLS = 4-2 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIOMA IS PRESENT ON SLIDES 7, 7-1, AND 21.			
[ Mesothelioma Malignant TGLS = 2-21 ]			
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-1 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 137	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 720
	<b>DOSE:</b> 20 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 102520

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate [ Inflammation TGLS = 3-7-1 ]		Inflammation	Chronic, Moderate
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Testes	Interstit Cell Germinal Epith	Adenoma Atrophy	Moderate
* Urin Bladder Note: INFUSION ARTIFACT IN URINARY BLADDER.			

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PRIMARY CAUSE OF DEATH	- Mesentery Mesothelioma Malignant
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 20 MG/KG

DISP: Terminal Sacrifice

HISTO: 101421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5-6 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Hyperplasia	Moderate
* Mammary Gland			
[ Hyperplasia TGLS = 4-8 ]			
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-1 ]			
* Skin	SOA	Erosion	Minimal
	Epidermis, SOA	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 138	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 731 <b>HISTO:</b> 101421
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen [ Leukemia Mononuclear TGLS = 3-6 ]		Leukemia Mononuclear	
* Testes [ Adenoma TGLS = 1-7 ] [ Atrophy TGLS = 2-7 ]	Interstit Cell Germinal Epith Interstit Cell	Adenoma Atrophy Hyperplasia	Marked Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 139

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101422

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	Peripheral Nerve
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Eye		Cataract	Minimal
	Retina	Degeneration	Moderate
[ Cataract TGLS = 1-44 ]			
[ Degeneration TGLS = 1-44 ]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[ Adenoma TGLS = 3-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 140

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101423

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		[ Hepatodiaphragmatic Nodule TGLS = 6-24 ]	
* Mammary Gland		Hyperplasia	Marked
		[ Hyperplasia TGLS = 1-8,1-21 ]	
Mesentery	Fat	Necrosis	Moderate
		[ Necrosis TGLS = 3-23 ]	
* Pancreas		Atrophy	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
		[ Adenoma TGLS = 5-1 ]	
* Prostate		Inflammation	Chronic, Moderate
* Skin	Epidermis, SOA	Hyperplasia	Minimal
		Keratoacanthoma	

Note: REGULAR ABDOMINAL SKIN SECTION IS PRESENT ON SLIDE 21.  
 [ Keratoacanthoma TGLS = 2-22 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 140

**TRT#:** 5  
**DOSE:** 20 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 101423

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Urinary Bladder

Transit Epithe

Hyperplasia  
Inflammation

Marked  
Chronic, Moderate

[ Hyperplasia TGLS = 4-8 ]

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 20 MG/KG

DISP: Terminal Sacrifice

HISTO: 101424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Compression	Mild
[ Compression TGLS = 4-1 ]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Inflammation	Chronic, Moderate
		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
* Lymph Node, Mandibular		Ectasia	Moderate
Note: MANDIBULAR LYMPH NODE PRESENT (SLIDE 8).			
* Mammary Gland		Hyperplasia	Moderate
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Schwannoma Malignant	
Note: A PORTION OF THE MALIGNANT SCHWANNOMA IS PRESENT ON SLIDE 12.			
Note: THE MALIGNANT SCHWANNOMA HAS MORPHOLOGY OF THE LESION DOCUMENTED BY OTHERS AS "NEURAL CREST TUMOR".			
[ Schwannoma Malignant TGLS = 2-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 141	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 101424
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes Tissue NOS [ Lipoma TGLS = 1-21 ]	Germinal Epith	Pigmentation Atrophy Lipoma	Minimal Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 142

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101425

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Infiltration Cellular	Histiocyte, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
[ Hepatodiaphragmatic Nodule TGLS = 3-22 ]			
* Lung		Hemorrhage	Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 4-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Skin	Subcut Tiss	Fibroma	
	Epidermis	Hyperplasia	Mild
	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
[ Fibroma TGLS = 2-21 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 142

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101425

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 1-23 ]

\* Testes

Bilateral, Interstit Cell

Adenoma

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 143

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 649

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101341

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Brain		Compression	Marked
		Hydrocephalus	Mild
[ Compression TGLS = 6-1 ]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
* Lung		Inflammation	Chronic, Moderate
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Mild
[ Hemorrhage TGLS = 4-3 ]			
[ Pigmentation TGLS = 4-3 ]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 3-21 ]			
* Nose		Foreign Body	
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 7-24 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 143	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 649 <b>HISTO:</b> 101341
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Marked
[ Inflammation TGLS = 2-7-1 ]			
* Skin	Subcut Tiss Epidermis	Fibrosarcoma Hyperplasia Ulcer	Marked Marked
Note: THE FIBROSARCOMA (TGL 1-23) APPEARS TO IN AN EARLY STAGE.			
[ Fibrosarcoma TGLS = 1-23 ]			
[ Hyperplasia TGLS = 5-22 ]			
[ Ulcer TGLS = 5-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
[ Adenoma TGLS = 8-7 ]			

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PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Skin Subcut Tiss Fibrosarcoma

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 20 MG/KG

DISP: Terminal Sacrifice

HISTO: 101426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIOMA IS PRESENT ON SLIDES 7 AND 7-1.			
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen			
Note: TGL 3 IS CONSIDERED A SPLENIC DEVELOPMENTAL MALFORMATION; MORPHOLOGY NOT AVAILABLE ON TDMS.			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-7 ]			
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 144

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101426

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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C Cell

Hyperplasia

Mild

Tongue

Squamous Cell Papilloma

[ Squamous Cell Papilloma TGLS = 4-22 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 145

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 676

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101342

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Duodenum	Epithelium	Hyperplasia	Moderate
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Marked
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Marked
	[ Vacuolization Cytoplasmic TGLS = 5-6 ]		
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Moderate
		Pigmentation	Mild
* Nose		Inflammation	Chronic, Mild
* Pancreas		Cyst	Moderate
	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	Pars Intermed	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
	[ Adenoma TGLS = 7-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 145	<b>TRT#:</b> 5 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 676 <b>HISTO:</b> 101342
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen	Lymph Follic	Atrophy	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
* Testes	Germinal Epith	Atrophy	Marked

---

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 20 MG/KG

DISP: Terminal Sacrifice

HISTO: 101427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Moderate
		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
		Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)
* Lymph Node, Mesenteric		Ectasia	Moderate
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-21 ]			
* Pancreas		Atrophy	Mild
		Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)
[ Squamous Cell Carcinoma TGLS = 4-23 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
		Keratoacanthoma	
[ Keratoacanthoma TGLS = 2-22 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 146	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 20 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 101427

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Squamous Cell Carcinoma	
[ Squamous Cell Carcinoma TGLS = 7-4 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 3-7 ]			

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 147

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101428

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Inflammation	Chronic, Moderate
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hemorrhage	Moderate
Note: BASOPHILIC FOCUS IS ON SLIDE 21.			
			[ Hemorrhage TGLS = 3-21 ]
* Mammary Gland		Hyperplasia	Moderate
			[ Hyperplasia TGLS = 1-8 ]
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
			[ Adenoma TGLS = 4-1 ]
* Prostate		Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:14

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 147

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101428

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 2-7 ]

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 148

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101429

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	Multiple
[ Adenoma TGLS = 2-7 ]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lung		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Marked
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Prostate		Inflammation	Chronic, Moderate
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstitial Cell	Hyperplasia	Mild
[ Adenoma TGLS = 1-7 ]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 148

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101429

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 149

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101430

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Moderate
* Eye	Retina	Degeneration	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 4-6 ]		
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Skin	Epidermis	Hyperplasia	Moderate
		Ulcer	Marked
	[ Hyperplasia TGLS = 1-21 ]		
	[ Ulcer TGLS = 1-21 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3-6 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 149

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101430

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Testes

Germinal Epith

Atrophy

Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: Diisopropylcarbodiimide  
CAS Number: 693-13-0

Date Report Requested: 10/20/2014  
Time Report Requested: 08:42:14  
First Dose M/F: NA / NA  
Lab: SRI

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<b>ANIMAL ID:</b> 150	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 688
	<b>DOSE:</b> 20 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 101343

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Bone	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Pancreas	* Parathyroid Gland
Penis	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

\* Lymph Node, Mandibular

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**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Mild
		Leukemia Mononuclear	
* Eye	Cornea	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Marked
		Inflammation	Chronic, Moderate
		Thrombosis	Moderate
[ Thrombosis TGLS = 16-25 ]			
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Necrosis	Focal, Moderate
[ Hyperplasia TGLS = 5-6 ]			
[ Leukemia Mononuclear TGLS = 5-6 ]			
[ Necrosis TGLS = 5-6 ]			
* Lung		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 150

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 688

**DOSE:** 20 MG/KG

**DISP:** Natural Death

**HISTO:** 101343

**ORGAN AND ACCOUNTABLE SITE STATUS**

Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 13-3 ]		
	[ Leukemia Mononuclear TGLS = 6-7,7-7 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 11-5 ]		
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[ Adenoma TGLS = 15-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
		Necrosis	Marked
	[ Leukemia Mononuclear TGLS = 8-27 ]		
	[ Necrosis TGLS = 9-26,10-27 ]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	[ Adenoma TGLS = 2-7 ]		
* Thymus		Leukemia Mononuclear	
Urethra		Angiectasis	Marked
	[ Angiectasis TGLS = 3-23 ]		

**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear  
**CONTRIBUTORY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 151

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 325

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 94591

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Lung	Edema	Moderate
	Inflammation	Chronic, Moderate

Note: CHRONIC INFLAMMATION CONSISTS LARGELY OF AGGREGATES ON MONONUCLEAR CELLS, MANY OF WHICH ARE PLASMA CELLS, AROUND SMALL BLOOD VESSELS.

[ Edema TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

* Spleen	Pigmentation	Mild
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**PRIMARY CAUSE OF DEATH**

- Lung Inflammation

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 152

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101382

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* 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	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hypertrophy	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 153

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101383

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[ Hepatodiaphragmatic Nodule TGLS = 3-21 ]			
* Lung	Alveolar Epith	Hyperplasia	Marked
[ Hyperplasia TGLS = 4-2 ]			
* Lymph Node, Mesenteric		Ectasia	Mild
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Pancreas		Atrophy	Mild
[ Atrophy TGLS = 2-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
Note: PITUITARY GLAND ADENOMA IS RELATIVELY SMALL, BUT IS ENCROACHING ON THE PARS INTERMEDIA AND PARS NERVOSA.			
* Prostate		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-7 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 153

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101383

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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:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 154

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 553

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 98165

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Lymph Node, Mandibular	* Thymus
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**OBSERVATIONS**

* Heart	Cardiomyopathy	Mild
* Lung	Infiltration Cellular	Histiocyte, Minimal
	Inflammation	Chronic, Mild
* Prostate	Inflammation	Chronic, Mild
* Spleen	Pigmentation	Mild

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 155

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 204

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 94173

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Nose
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	Skeletal Muscle
* Skin	Spinal Cord	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Hemorrhage	Moderate
	Neuron	Necrosis	Minimal
[ Hemorrhage TGLS = 3-1 ]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
* Prostate		Inflammation	Chronic, Moderate
* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Moderate
[ Atrophy TGLS = 2-6 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 156

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 278

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 94186

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Pituitary Gland	* Preputial Gland	* Seminal Vesicle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

**MISSING**

* Intestine Small, Ileum	* Lymph Node, Mandibular
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**OBSERVATIONS**

* Brain		Hemorrhage	Moderate
	Arteriole	Necrosis	Fibrinoid, Minimal
	Neuron	Necrosis	Mild
* Eye	Cornea	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Moderate
Note: CRYSTALS PRESENT. [ Hemorrhage TGLS = 3-2 ] [ Infiltration Cellular TGLS = 3-2 ]			
* Pancreas			
Note: MILD CHRONIC PERIARTERITIS IN PANCREAS; NOT TABULATED.			
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Minimal
* Spleen		Pigmentation	Moderate
* Testes	Germinal Epith	Atrophy	Mild
Note: TESTIS ATROPHY IS UNILATERAL.			
* Thymus		Hemorrhage	Mild
* Thyroid Gland		Ultimobranchial Cyst	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 156

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 278

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 94186

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Urinary Bladder

Hemorrhage

Moderate

Inflammation

Chronic, Moderate

[ Hemorrhage TGLS = 1-8 ]

[ Inflammation TGLS = 1-8 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 157

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 706

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 101302

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain	Neuron	Necrosis	Moderate
* Eye	Cornea	Hyperplasia	Moderate
	Cornea	Inflammation	Chronic, Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 4-21 ]	
		[ Leukemia Mononuclear TGLS = 6-3 ]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 5-5 ]	
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 157	<b>TRT#:</b> 7 <b>DOSE:</b> 40 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 706 <b>HISTO:</b> 101302
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas Note: PANCREAS IS ON SLIDE 21.		Atrophy	Moderate
* Parathyroid Gland		Adenoma	
* Prostate		Inflammation	Chronic, Minimal
* Skin	Epidermis, SOA SOA	Hyperplasia Inflammation	Minimal Chronic, Minimal
* Spleen [ Leukemia Mononuclear TGLS = 2-22 ]		Leukemia Mononuclear	
* Stomach, Forestomach [ Squamous Cell Papilloma TGLS = 8-23 ]		Squamous Cell Papilloma	
* Testes [ Adenoma TGLS = 1-7 ]	Bilateral, Interstit Cell	Adenoma	

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 158

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 667

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101303

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
* Seminal Vesicle	Spinal Cord	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Brain		Compression	Marked
		Hydrocephalus	Mild
[ Compression TGLS = 7-1 ]			
* Eye	Cornea	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Moderate
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
Note: EOSINOPHILIC FOCUS IS ON SLIDE 22.			
[ Angiectasis TGLS = 4-22 ]			
[ Hepatodiaphragmatic Nodule TGLS = 5-23 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 2-8 ]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 158	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 667
	<b>DOSE:</b> 40 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 101303

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-25 ]			
* Preputial Gland		Inflammation	Chronic, Mild
[ Inflammation TGLS = 3-8 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis	Hyperplasia	Moderate
	Epidermis, SOA	Hyperplasia	Minimal
		Ulcer	Moderate
[ Hyperplasia TGLS = 1-21,8-24 ]			
[ Ulcer TGLS = 1-21 ]			
* Spleen		Pigmentation	Mild
* Stomach, Glandular		Erosion	Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH      - Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 159

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 40 MG/KG

DISP: Terminal Sacrifice

HISTO: 101384

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Bone                     | * Bone Marrow             | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * 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                     | * Parathyroid Gland       | * Pituitary Gland           |
| * Preputial Gland        | * Salivary Glands          | * Seminal Vesicle         | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                          |                           |                       |                     |
|--------------------------|---------------------------|-----------------------|---------------------|
| * Adrenal Medulla        |                           | Hyperplasia           | Moderate            |
| * Heart                  |                           | Cardiomyopathy        | Mild                |
| * Kidney                 |                           | Nephropathy           | Minimal             |
| * Liver                  |                           | Basophilic Focus      |                     |
|                          |                           | Clear Cell Focus      |                     |
|                          | Bile Duct                 | Hyperplasia           | Mild                |
|                          |                           | Mixed Cell Focus      |                     |
| * Lung                   |                           | Infiltration Cellular | Histiocyte, Minimal |
| Mesentery                | Fat                       | Necrosis              | Moderate            |
| [ Necrosis TGLS = 2-21 ] |                           |                       |                     |
| * Pancreas               |                           | Atrophy               | Mild                |
|                          |                           | Cyst                  | Moderate            |
| * Prostate               |                           | Inflammation          | Chronic, Mild       |
| * Skin                   | SOA                       | Inflammation          | Chronic, Minimal    |
| * Testes                 | Bilateral, Interstit Cell | Adenoma               |                     |
| [ Adenoma TGLS = 1-7 ]   |                           |                       |                     |
| * Thyroid Gland          | C Cell                    | Adenoma               |                     |
|                          | Follicle                  | Cyst                  | Moderate            |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 159

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101384

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 40 MG/KG

DISP: Terminal Sacrifice

HISTO: 101385

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 2-21 ]		
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Carcinoma	
	Note: THE PITUITARY GLAND CARCINOMA IS INFILTRATING BRAIN AND PARS INTERMEDIA OF PITUITARY GLAND.		
	[ Carcinoma TGLS = 3-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 160

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101385

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Adenoma TGLS = 1-7 ]

Interstit Cell

Hyperplasia

Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 161

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101386

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain	Neuron	Necrosis	Minimal
* Eye	Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 161	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 40 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 101386

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 3-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-6 ]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	Interstit Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 162	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 607
	<b>DOSE:</b> 40 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 98744

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
Tongue	* Trachea	* Urinary Bladder	

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**MISSING**

\* Lymph Node, Mandibular

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**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Hemorrhage	Mild
* Nose		Inflammation	Chronic, Minimal
* Preputial Gland		Adenoma	
[ Adenoma TGLS = 1-21 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 4-7 ]			
* Thyroid Gland	C Cell	Adenoma	

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**PRIMARY CAUSE OF DEATH** - UNCERTAIN

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 163

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101387

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* 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	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hyperplasia	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Cornea	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
* Lung		Hemorrhage	Mild
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Moderate
[ Hemorrhage TGLS = 2-3 ]			
[ Hyperplasia TGLS = 2-3 ]			
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[ Adenoma TGLS = 4-1 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 164

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101388

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Urinary Bladder

**OBSERVATIONS**

* Bone Marrow		Leukemia Mononuclear	
* Eye	Cornea	Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-6 ]			
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 5-3 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-1 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 164	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 40 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 101388

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
[ Fibrosis TGLS = 3-6 ]			
[ Leukemia Mononuclear TGLS = 3-6 ]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[ Adenoma TGLS = 1-7 ]			
[ Atrophy TGLS = 2-7 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 165

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 237

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 94174

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
Skeletal Muscle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Brain		Hemorrhage	Minimal
	Neuron	Necrosis	Minimal
[ Hemorrhage TGLS = 4-1 ]			
* Lung		Hemorrhage	Minimal
[ Hemorrhage TGLS = 3-2 ]			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Spleen		Pigmentation	Moderate
* Urin Bladder			

Note: URINARY BLADDER GREATLY DILATED (TGL 2); MORPHOLOGY NOT AVAILABLE ON TDMS.

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 40 MG/KG

DISP: Terminal Sacrifice

HISTO: 101389

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Minimal
* Bone		Osteosarcoma	
[ Osteosarcoma TGLS = 4-21 ]			
* Bone Marrow		Infiltration Cellular	Histiocyte, Marked
[ Infiltration Cellular TGLS = 3-9 ]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Metaplasia	Atypical, Moderate
Note: "METAPLASIA" CONSISTS OF CYSTIC GLAND-LIKE STRUCTURES ADJACENT TO A LARGE BLOOD VESSEL AND CONTAINING MUCOID MATERIAL.			
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Mild
[ Hemorrhage TGLS = 2-3 ]			
[ Hyperplasia TGLS = 2-3 ]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Stomach, Glandular	Glands	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 166	<b>TRT#:</b> 7 <b>DOSE:</b> 40 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 101389
<b>ORGAN AND ACCOUNTABLE SITE STATUS</b>			
[ Adenoma TGLS = 1-7 ]	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	
<b>PRIMARY CAUSE OF DEATH</b>	-		

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 167

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 606

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98745

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-6 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5-5 ]			
* Skin	Subcut Tiss	Fibroma	
[ Fibroma TGLS = 1-21 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-6 ]			
* Testes	Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear

**CONTRIBUTORY CAUSE OF DEATH** - Skin Subcut Tiss Fibroma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 168

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101390

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Epididymis		Granuloma Sperm	Mild
* Eye	Cornea	Inflammation	Chronic, Minimal
* Harderian Gland		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Cyst	Moderate
Note: MULTIPLE CYSTS LINED WITH FLATTENED EPITHELIUM AND CONTAINING MUCOID MATERIAL ADJACENT TO BLOOD VESSEL.			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Spleen		Pigmentation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 168	<b>TRT#:</b> 7 <b>DOSE:</b> 40 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 101390
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes	Interstit Cell Germinal Epith Interstit Cell	Adenoma Atrophy Hyperplasia	Moderate Mild
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[ Adenoma TGLS = 2-7 ]

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 40 MG/KG

DISP: Terminal Sacrifice

HISTO: 101391

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Mammary Gland	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Epididymis			
Note: MILD EDEMA IN ONE EPIDIDYMIS; MORPHOLOGY NOT AVAILABLE ON TDMS.			
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Hemorrhage	Mild
Note: LUNG HEMMORHAGE IS WITHIN ALVEOLI AND IN PERIVASCULAR SPACES; MILD CONGESTION OF SMALL BLOOD VESSELS (NOT TABULATED).			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Pancreas		Atrophy	Mild
Note: ATROPHY INCLUDES SHRUNKEN ACINI WITH INCREASE IN STROMAL TISSUE AND ALSO SMALL MULTILOCULAR CYSTS. MILD INFILTRATION OF EOSINPHILS AROUND DUCTS.			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-1 ]			
* Preputial Gland		Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 170

TRT#: 7

SEX: Male

DAY ON TEST: 623

DOSE: 40 MG/KG

DISP: Natural Death

HISTO: 98746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Lymph Node, Mesenteric	* Mammary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Liver		Eosinophilic Focus	
* Lung		Hemorrhage	Moderate
		Infiltration Cellular	Histiocyte, Minimal
[ Hemorrhage TGLS = 1-2 ]			
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Testes	Germinal Epith	Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 171

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 669

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101304

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

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

* Brain	Neuron	Necrosis	Minimal
* Eye	Cornea	Hyperplasia	Moderate
	Cornea	Inflammation	Chronic, Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[ Hepatodiaphragmatic Nodule TGLS = 2-21 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Pigmentation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 171	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 669
	<b>DOSE:</b> 40 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 101304

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 1-7 ]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 172

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 266

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 94183

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Mammary Gland	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	Skeletal Muscle	* Skin	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Spleen		Pigmentation	Mild

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 173

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 281

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 94187

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Gliosis	Minimal
		Hemorrhage	Moderate
	Arteriole	Necrosis	Fibrinoid, Moderate
[ Gliosis TGLS = 2-1 ]			
* Eye	Cornea	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Mild
		Metaplasia	Osseous, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Salivary Glands		Atrophy	Moderate
		Necrosis	Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Pigmentation	Moderate
* Thymus		Hemorrhage	Moderate
* Urin Bladder			

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH

-

CONTRIBUTORY CAUSE OF DEATH

- Lung Hemorrhage

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 173

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 281

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 94187

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 174

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 319

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 94528

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Testes	* Thymus
* Thyroid Gland	* Trachea		

**MISSING**

* Intestine Large, Cecum	* Lymph Node, Mandibular
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**OBSERVATIONS**

* Eye	Cornea	Inflammation	Chronic, Mild
* Lung		Inflammation	Chronic, Moderate
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mediastinal	Pigmentation	Mild
			[ Hemorrhage TGLS = 6-3 ]
			[ Hyperplasia TGLS = 6-3 ]
			[ Pigmentation TGLS = 6-3 ]
* Nose		Foreign Body	
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Intermed	Cyst	Moderate
* Spleen		Pigmentation	Marked
* Stomach, Glandular		Erosion	Moderate
			[ Erosion TGLS = 9-4 ]
* Urinary Bladder		Hemorrhage	Moderate
		Inflammation	Chronic, Moderate
			[ Hemorrhage TGLS = 4-8 ]
Zymbal's Gland		Carcinoma	
			[ Carcinoma TGLS = 8-22 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 174

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 319

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 94528

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH - Zymbal's Gland Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Lung Inflammation

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Animal Note: TISSUE ON SLIDE 21 APPEARS TO BE NORMAL SUBCUTANEOUS FAT.

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 175	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 40 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 101392

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Bone	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Rectum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Thymus	* Trachea	* Urinary Bladder	

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**MISSING**

\* Lymph Node, Mandibular

---

**OBSERVATIONS**

* Adrenal Cortex		Lymphoma Malignant	
* Adrenal Medulla		Lymphoma Malignant	
* Bone Marrow		Lymphoma Malignant	
* Brain		Lymphoma Malignant	
* Eye	Cornea	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Lymphoma Malignant	
* Intestine Large, Colon		Lymphoma Malignant	
* Intestine Small, Duodenum		Lymphoma Malignant	
* Intestine Small, Ileum		Lymphoma Malignant	
* Intestine Small, Jejunum		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Lymphoma Malignant	
	[ Hepatodiaphragmatic Nodule TGLS = 8-22 ]		
* Lung		Lymphoma Malignant	
Lymph Node	Mediastinal	Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 10-3 ]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 2-8 ]		
Mesentery		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 7-21 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 175      **TRT#:** 7      **SEX:** Male      **DAY ON TEST:** 730  
**DOSE:** 40 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 101392

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pancreas		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-24 ]			
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[ Adenoma TGLS = 11-1 ]			
* Preputial Gland		Cyst	Moderate
[ Cyst TGLS = 3-8 ]			
* Prostate		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Seminal Vesicle		Lymphoma Malignant	
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant	
		Necrosis	Moderate
[ Hematopoietic Cell Proliferation TGLS = 6-23 ]			
[ Lymphoma Malignant TGLS = 6-23 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Lymphoma Malignant	
		Ulcer	Marked
[ Lymphoma Malignant TGLS = 9-4 ]			
* Stomach, Glandular		Lymphoma Malignant	
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 4-7 ]			
* Thyroid Gland	C Cell	Adenoma	
	Follicle	Cyst	Moderate
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 176

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 691

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101305

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Moderate Fatty, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain	Arteriole	Necrosis	Fibrinoid, Minimal
	Neuron	Necrosis	Moderate
* Eye	Cornea	Hyperplasia	Moderate
	Cornea	Inflammation	Chronic, Marked
	Cornea	Ulcer	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Small, Duodenum	Epithelium	Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
Note: HISTIOCYTIC INFILTRATE IS IN SECTION OF LUNG ON SLIDE 5.			
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mediastinal	Pigmentation	Mild
		[ Hemorrhage TGLS = 4-3 ]	
		[ Hyperplasia TGLS = 4-3 ]	
		[ Pigmentation TGLS = 4-3 ]	
* Pancreas		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 176	<b>TRT#:</b> 7 <b>DOSE:</b> 40 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 691 <b>HISTO:</b> 101305
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pituitary Gland [ Adenoma TGLS = 1-1 ]	Pars Distalis	Adenoma	
* Prostate [ Inflammation TGLS = 2-7-1 ]		Inflammation	Chronic, Moderate
* Skin [ Hyperplasia TGLS = 5-21 ] [ Ulcer TGLS = 5-21 ]	Epidermis Epidermis, SOA	Hyperplasia Hyperplasia Ulcer	Marked Minimal Marked
* Stomach, Forestomach [ Edema TGLS = 3-4 ] [ Hyperplasia TGLS = 3-4 ]	Epithelium	Edema Hyperplasia Ulcer	Moderate Mild Marked
* Testes	Germinal Epith Interstit Cell	Atrophy Hyperplasia	Minimal Mild
* Urin Bladder Note: INFUSION ARTIFACT IN URINARY BLADDER.			

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PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Skin Ulcer;Stomach;Forestomach Ulcer

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 177

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 676

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 101306

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**OBSERVATIONS**

* Bone		Osteoma	
[ Osteoma TGLS = 10-25 ]			
* Brain		Compression	Moderate
[ Compression TGLS = 6-1 ]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
[ Mixed Cell Focus TGLS = 9-6 ]		Mixed Cell Focus	
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-21 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-22 ]			
* Nose		Foreign Body	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-24 ]			

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 177

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 676

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 101306

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Prostate		Inflammation	Chronic, Moderate
* Skin	Epidermis	Hyperplasia	Marked
	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
		Ulcer	Marked
	[ Hyperplasia TGLS = 8-23 ]		
	[ Ulcer TGLS = 8-23 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Testes	Germinal Epith	Atrophy	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		
CONTRIBUTORY CAUSE OF DEATH	- Skin Ulcer		

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 40 MG/KG

DISP: Terminal Sacrifice

HISTO: 101393

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Hemorrhage	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Note: SQUAMOUS COMPONENT AND CYST FORMATION PRESENT WITHIN THE AREA OF ALVEOLAR EPITHELIAL HYPEPLASIA.		
* Pancreas		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 4-1 ]		
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Mild
	SOA	Inflammation	Chronic, Minimal
	Subcut Tiss	Schwannoma Malignant	
	[ Schwannoma Malignant TGLS = 1-21 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 178

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101393

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Spleen

Leukemia Mononuclear

\* Testes

Bilateral, Interstit Cell

Adenoma

[ Adenoma TGLS = 2-7 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 179

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 704

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101307

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Nose	* Parathyroid Gland	Peripheral Nerve
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Eye		Cataract	Mild
	Retina	Degeneration	Mild
	Cornea	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Skin	Subcut Tiss	Fibroma	
	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
	[ Fibroma TGLS = 3-21 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 2-7 ]		

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 180

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 237

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 94175

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Mammary Gland	* Nose	* Pancreas
Peripheral Nerve	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	Skeletal Muscle	* Skin	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

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

* Brain		Hemorrhage	Moderate
	Arteriole	Necrosis	Fibrinoid, Minimal
	Neuron	Necrosis	Moderate
[ Hemorrhage TGLS = 6-1 ]			
* Kidney		Nephropathy	Minimal
* Lung		Hemorrhage	Minimal
[ Hemorrhage TGLS = 5-2 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Prostate		Inflammation	Chronic, Minimal
* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Moderate

Note: APPARENT DEVELOPMENTAL MALFORMATION (TGL 4); MORPHOLOGY NOT AVAILABLE ON TDMS.

[ Atrophy TGLS = 3-6 ]

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 181

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101394

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
* Seminal Vesicle	Skeletal Muscle	Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone	Cranium	Osteopetrosis	Moderate
[ Osteopetrosis TGLS = 4-22 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Hemorrhage	Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-8 ]			
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Skin	Epidermis, SOA	Hyperplasia	Mild
	SOA	Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 181	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 40 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 101394

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Subcut Tiss	Schwannoma Malignant
[ Schwannoma Malignant TGLS = 3-21 ]		
* Testes	Bilateral, Interstit Cell	Adenoma
[ Adenoma TGLS = 2-7 ]		

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 182

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101395

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Eye	Cornea	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Mixed Cell Focus	
* Lung		Hemorrhage	Minimal
Lymph Node	Mediastinal	Hemorrhage	Marked
	Mediastinal	Hyperplasia	Lymphoid, Mild
			[ Hemorrhage TGLS = 3-3 ]
			[ Hyperplasia TGLS = 3-3 ]
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Pancreas		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
			[ Adenoma TGLS = 4-1 ]

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 182	<b>TRT#:</b> 7 <b>DOSE:</b> 40 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 731 <b>HISTO:</b> 101395
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland [ Adenoma TGLS = 1-8 ]		Adenoma	
* Prostate [ Inflammation TGLS = 2-7-1 ]		Inflammation	Chronic, Moderate
* Skin	Epidermis, SOA SOA	Hyperplasia Inflammation	Minimal Chronic, Minimal
* Spleen	Lymph Follic	Hyperplasia Pigmentation	Mild Minimal
* Testes	Germinal Epith	Atrophy	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 290

DOSE: 40 MG/KG

DISP: Moribund Sacrifice

HISTO: 94552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Hemorrhage	Moderate
	Neuron	Necrosis	Minimal
* Eye	Cornea	Inflammation	Chronic, Mild
Note: INFLAMMATION INVOLVES CORNEA AND CORNEO-SCLERAL JUNCTION.			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Dilatation	Mild
* Lung		Hemorrhage	Minimal
Lymph Node	Pancreatic	Hemorrhage	Mild
	Pancreatic	Pigmentation	Mild
[ Hemorrhage TGLS = 1-7 ]			
[ Pigmentation TGLS = 1-7 ]			
* Mammary Gland		Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Mild
* Urinary Bladder		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 184

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 634

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 101308

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Hyperplasia	Moderate Focal, Minimal
* Brain		Compression	Moderate
[ Compression TGLS = 6-1 ]			
* Eye	Cornea	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 3-22 ]			
* Lung		Hemorrhage	Marked
[ Hemorrhage TGLS = 4-2 ]			
* Lymph Node, Mesenteric		Pigmentation	Mild
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIOMA IS PRESENT ON SLIDES 7, 7-1, AND 21.			
[ Mesothelioma Malignant TGLS = 2-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
Note: PITUITARY GLAND ADENOMA CONTAINS LARGE, PARTIALLY COLLAPSED BLOOD LAKES.			
[ Adenoma TGLS = 7-24 ]			
* Preputial Gland		Adenoma	
[ Adenoma TGLS = 1-8 ]			
* Prostate	Epithelium	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 184	<b>TRT#:</b> 7 <b>DOSE:</b> 40 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 634 <b>HISTO:</b> 101308
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Epidermis	Inflammation Hyperplasia Inflammation	Chronic, Mild Moderate Chronic, Mild
[ Hyperplasia TGLS = 5-23 ] [ Inflammation TGLS = 5-23 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Germinal Epith	Atrophy	Marked

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PRIMARY CAUSE OF DEATH	- Mesentery Mesothelioma Malignant
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 185

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 513

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 97700

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	Coagulating Gland	Ear	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	Lacrimal Gland	* Lung	* Nose
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
* Seminal Vesicle	* Skin	Spinal Cord	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Marked
		Hydrocephalus	Moderate
[ Compression TGLS = 4-1 ]			
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Pigmentation	Marked
Note: THE SPLENIC PIGMENT IS TYPICAL OF HEMOSIDERIN.			
* Stomach, Forestomach		Edema	Marked
	Epithelium	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 185

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 513

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 97700

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Inflammation

Chronic, Marked

[ Edema TGLS = 3-4 ]

[ Hyperplasia TGLS = 3-4 ]

[ Inflammation TGLS = 3-4 ]

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**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 186

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 278

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 94188

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Lymph Node, Mandibular	* Stomach, Forestomach	* Stomach, Glandular
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**OBSERVATIONS**

* Brain	Neuron	Necrosis	Minimal
* Kidney		Nephropathy	Minimal
* Pancreas		Atrophy	Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Mild

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 187

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 278

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 94189

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Hemorrhage	Mild
	Neuron	Necrosis	Mild
* Eye	Cornea	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver			
Note: MULTIPLE FOCI OF COLORLESS PARTICULATE TO CRYSTALLOID MATERIAL IN LIVER; POSSIBLY A FIXATION ARTIFACT.			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 188

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 683

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101309

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* 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
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration Hyperplasia	Fatty, Moderate Focal, Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Eye	Cornea	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy Leukemia Mononuclear Schwannoma Malignant	Minimal
Note: MALIGNANT SCHWANNOMA APPEARS TO BE IN AN EARLY STAGE. [ Schwannoma Malignant TGLS = 4-22 ]			
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Marked
[ Hyperplasia TGLS = 5-6 ] [ Leukemia Mononuclear TGLS = 5-6 ]			
* Lung		Hemorrhage Infiltration Cellular Leukemia Mononuclear	Mild Histiocyte, Minimal
Lymph Node	Pancreatic	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-7 ]			

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 188

TRT#: 7

DOSE: 40 MG/KG

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 683

HISTO: 101309

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric Mesentery [ Schwannoma Malignant TGLS = 1-21 ]		Leukemia Mononuclear Schwannoma Malignant	
* Pancreas		Atrophy	Minimal
* Skin	Epidermis, SOA SOA	Hyperplasia Inflammation	Minimal Chronic, Minimal
* Spleen  [ Leukemia Mononuclear TGLS = 3-23 ]		Fibrosis Leukemia Mononuclear	Mild
* Stomach, Glandular [ Erosion TGLS = 6-24 ]		Erosion	Mild
* Testes	Interstit Cell Germinal Epith Interstit Cell	Adenoma Atrophy Hyperplasia	Moderate Mild
* Urin Bladder Note: INFUSION ARTIFACT IN URINARY BLADDER.			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
 CONTRIBUTORY CAUSE OF DEATH - Mesentery Schwannoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 298

DOSE: 40 MG/KG

DISP: Moribund Sacrifice

HISTO: 94553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* 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	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Gliosis	Minimal
* Eye	Cornea	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[ Hepatodiaphragmatic Nodule TGLS = 1-21 ]		
* Spleen		Pigmentation	Mild
* Testes	Germinal Epith	Atrophy	Moderate
	Note: TESTICULAR ATROHY IS UNILATERAL.		
* Thyroid Gland		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 190

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101396

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Hemorrhage	Moderate
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
		Keratoacanthoma	
	[ Keratoacanthoma TGLS = 1-21 ]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[ Adenoma TGLS = 2-7 ]		
	[ Atrophy TGLS = 3-7 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 190

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101396

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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:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 191

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 290

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 94554

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain	Neuron	Necrosis	Mild
* Eye	Cornea	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Hemorrhage	Mild
* Lung		Edema	Mild
Note: MODERATE LUNG CONGESTION (TGL 1); NOT TABULATED. [ Edema TGLS = 1-2 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
Note: CHRONIC INFLAMMATION IN APPLICATION SITE SKIN IS ACTUALLY A FOCUS OF MINIMAL EXUDATION ABOVE EPIDERMIS.			
* Spleen		Pigmentation	Moderate
* Stomach, Glandular		Ulcer	Mild
Note: ULCER IS EVIDENT ON SLIDES 4 AND 21. [ Ulcer TGLS = 2-21 ]			
* Thymus		Hemorrhage	Moderate

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 192

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 617

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98747

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

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

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Mixed Cell Focus	
* Lung	Alveolar Epith	Hyperplasia Inflammation	Moderate Chronic, Minimal
[ Hyperplasia TGLS = 9-22 ]			
[ Inflammation TGLS = 5-2 ]			
Lymph Node	Mediastinal Mediastinal	Hyperplasia Pigmentation	Lymphoid, Moderate Moderate
[ Hyperplasia TGLS = 4-3 ]			
[ Pigmentation TGLS = 4-3 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pancreas		Atrophy	Marked
[ Atrophy TGLS = 3-7 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 6-1 ]			
* Skin	Subcut Tiss Epidermis SOA	Fibroma Hyperplasia Inflammation	Marked Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 192	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 617
	<b>DOSE:</b> 40 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 98747

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Fibroma TGLS = 1-21 ]		Inflammation	Chronic, Moderate
[ Hyperplasia TGLS = 7-23 ]			
[ Inflammation TGLS = 7-23 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[ Adenoma TGLS = 2-7 ]			

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**PRIMARY CAUSE OF DEATH** - Skin Subcut Tiss Fibroma

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 193

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 630

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 101310

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* 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	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Benign Pheochromocytoma Complex	
[ Pheochromocytoma Complex TGLS = 1-21 ]			
* Eye	Cornea	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

**PRIMARY CAUSE OF DEATH**

- Adrenal Medulla Pheochromocytoma Complex

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 298

DOSE: 40 MG/KG

DISP: Moribund Sacrifice

HISTO: 94555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Intestine Small, Duodenum	* Lymph Node, Mandibular
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OBSERVATIONS

* Brain		Hemorrhage	Minimal
* Eye	Cornea	Hyperplasia	Mild
	Cornea	Inflammation	Chronic, Mild
* Kidney		Cyst	Moderate
* Lung		Inflammation	Chronic, Mild
Note: PERIVASCULAR AGGREGATES OF MONONUCLEAR CELLS, MANY OF WHICH ARE PLASMA CELLS. SMALLER NUMBERS OF MONONUCLEAR CELLS IN ALVEOLAR SPACES.			
	[ Inflammation TGLS = 3-2 ]		
Lymph Node	Pancreatic	Pigmentation	Mild
	[ Pigmentation TGLS = 4-7 ]		
* Pancreas		Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Moderate
* Thymus		Hemorrhage	Mild
	[ Hemorrhage TGLS = 2-3 ]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 195

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101397

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland
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**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

**OBSERVATIONS**

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Lung		Hemorrhage	Mild
* Lymph Node, Mesenteric		Pigmentation	Mild
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-21 ]			
* Nose		Foreign Body	
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
* Preputial Gland		Adenoma	
[ Adenoma TGLS = 1-8 ]			
* Skin	Epidermis	Hyperplasia	Moderate
		Ulcer	Moderate
[ Hyperplasia TGLS = 4-22 ]			
[ Ulcer TGLS = 4-22 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 3-7 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 195

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101397

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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:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 196

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101398

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

* Intestine Small, Ileum	* Lymph Node, Mandibular
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**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Pheochromocytoma Malignant	
* Brain		Carcinoma	Metastatic (Pituitary Gland)
[ Carcinoma TGLS = 4-1 ]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Inflammation	Chronic, Moderate
		Nephropathy	Marked
* Liver		Clear Cell Focus	
* Lung		Inflammation	Chronic, Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Marked
[ Atrophy TGLS = 2-7 ]			
* Pituitary Gland	Pars Distalis	Carcinoma	
[ Carcinoma TGLS = 5-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-7 ]			
* Thyroid Gland	Follicle	Cyst	Moderate

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 196

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 101398

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 273

DOSE: 40 MG/KG

DISP: Moribund Sacrifice

HISTO: 94190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* 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	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Hemorrhage	Moderate
	Neuron	Necrosis	Moderate
* Eye	Cornea	Inflammation	Chronic, Minimal
Note: INFLAMMATION IS AT CORNEO-SCLERAL JUNCTION.			
* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
Note: FOCI OF CRYSTALLOID MATERIAL IN LIVER PARENCHYMA; POSSIBLY FIXATION ARTIFACT. [ Hepatodiaphragmatic Nodule TGLS = 7-21 ]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Spleen		Pigmentation	Moderate
* Urinary Bladder		Hemorrhage	Moderate
		Inflammation	Chronic, Moderate
Note: URINARY BLADDER DILATED (TGL 1); MORPHOLOGY NOT AVAILABLE ON TDMS. [ Hemorrhage TGLS = 2-8 ] [ Inflammation TGLS = 2-8 ]			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:15

**First Dose M/F:** NA / NA

**Lab:** SRI

**ANIMAL ID:** 198

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 277

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 94191

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain	Neuron	Necrosis	Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
* Spleen		Pigmentation	Mild

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 199

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 277

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 94192

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Heart
* 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
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Hemorrhage	Mild
	Neuron	Necrosis	Mild
* Eye	Cornea	Inflammation	Chronic, Mild
* Intestine Large, Cecum		Edema	Moderate
* Liver			
Note: MULTIPLE FOCI OF COLORLESS, PARTICULATE MATERIAL SUGGESTIVE OF FIXATION ARTIFACT WITHIN LIVER.			
Lymph Node	Pancreatic	Hemorrhage	Moderate
	Pancreatic	Pigmentation	Mild
	[ Hemorrhage TGLS = 3-7 ]		
	[ Pigmentation TGLS = 3-7 ]		
* Pancreas		Atrophy	Minimal
* Spleen		Pigmentation	Moderate
* Thymus		Hemorrhage	Mild
	[ Hemorrhage TGLS = 1-3 ]		

**PRIMARY CAUSE OF DEATH** - UNCERTAIN

Animal Note: DILATATION OF CECUM AND ILEUM LUMEN; MORPHOLOGY NOT AVAILABLE ON TDMS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 200

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 285

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 94556

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* 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	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Hemorrhage	Moderate
	Arteriole	Necrosis	Fibrinoid, Moderate
	Neuron	Necrosis	Mild
Note: BRAIN HEMORRHAGE PRESENT ON SLIDES 1 AND 21.			
* Eye	Cornea	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Edema	Moderate
* Liver			
Note: FOCI OF CRYSTALLOID ARTIFACTUAL MATERIAL WITHIN LIVER.			
* Lung		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 201

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 682  
**HISTO:** 101311

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

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

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Carcinoma	Metastatic (Thyroid Gland)
Lymph Node	Deep Cervical	Carcinoma	Metastatic (Thyroid Gland)
	Mediastinal	Carcinoma	Metastatic (Thyroid Gland)
	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Mild
[ Carcinoma TGLS = 3-22 ]			
[ Carcinoma TGLS = 5-23 ]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-21,2-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[ Adenoma TGLS = 6-1 ]			
* Thyroid Gland	C Cell	Carcinoma	
[ Carcinoma TGLS = 4-3 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:15

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 201

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 682

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101311

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Thyroid Gland C Cell Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 202

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 667  
**HISTO:** 101312

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Carcinoma Compression Hydrocephalus	Metastatic (Pituitary Gland) Marked Moderate
[ Carcinoma TGLS = 4-1 ] [ Compression TGLS = 4-1 ]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus Infiltration Cellular Mixed Cell Focus	Mixed Cell, Minimal
[ Basophilic Focus TGLS = 2-6 ] [ Mixed Cell Focus TGLS = 2-6 ]			
* Lung		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal Mediastinal	Hemorrhage Pigmentation	Minimal Moderate
[ Hemorrhage TGLS = 3-3 ] [ Pigmentation TGLS = 3-3 ]			
* Lymph Node, Mesenteric		Hemorrhage Hyperplasia Pigmentation	Minimal Lymphoid, Mild Mild
* Mammary Gland		Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 202	<b>TRT#:</b> 2 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 667 <b>HISTO:</b> 101312
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Carcinoma	
[ Carcinoma TGLS = 5-21 ]			
* Spleen		Pigmentation	Moderate
* Thyroid Gland	Follicle	Cyst	Moderate
	Follicular Cel	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 203

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102394

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Marked
* Brain		Compression	Mild
[ Compression TGLS = 5-1 ]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Necrosis	Focal, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8,2-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
Vagina		Inflammation	Chronic, Marked
[ Inflammation TGLS = 3-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 204

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 621

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98751

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Moderate
* Eye	Iris	Amelanotic Melanoma, Benign	
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	[ Eosinophilic Focus TGLS = UTGLa,b,c ]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
	[ Fibroadenoma TGLS = 2-21 ]		
	[ Hyperplasia TGLS = 1-8 ]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	Pars Intermed	Cyst	Moderate
	[ Adenoma TGLS = 3-1 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH** - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 205

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 394

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 96130

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Mild
Oral Mucosa		Squamous Cell Carcinoma	
[ Squamous Cell Carcinoma TGLS = 3-21,4-22 ]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

- Oral Mucosa Squamous Cell Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 206

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732  
**HISTO:** 102395

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Mild
[ Compression TGLS = 5-1 ]			
* Harderian Gland		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 4-23 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
[ Fibroadenoma TGLS = 2-21 ]			
[ Hyperplasia TGLS = 1-8,3-22 ]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-1 ]			
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 206

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102395

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 207

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732  
**HISTO:** 102396

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

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

* Adrenal Cortex		Degeneration	Fatty, Mild
* Brain		Compression	Mild
[ Compression TGLS = 4-1 ]			
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Carcinoma	
		Hyperplasia	Moderate
[ Carcinoma TGLS = 2-21 ]			
[ Hyperplasia TGLS = 1-8 ]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Ovary	Corpus Luteum	Hyperplasia	Moderate
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 207

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102396

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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:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:15

**First Dose M/F:** NA / NA

**Lab:** SRI

**ANIMAL ID:** 208

**TRT#:** 2

**DOSE:** 0 MG/KG

**SEX:** Female

**DISP:** Natural Death

**DAY ON TEST:** 673

**HISTO:** 101313

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**OBSERVATIONS**

* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Inflammation	Suppurative, Marked
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Necrosis	Focal, Mild
		[ Basophilic Focus TGLS = 6-6 ]	
		[ Necrosis TGLS = 6-6 ]	
* Lung		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 9-21 ]	
		[ Leukemia Mononuclear TGLS = 5-3 ]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		Pigmentation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 208	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 673
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 101313

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Mammary Gland		Fibroadenoma Hyperplasia	Moderate
[ Fibroadenoma TGLS = 11-22 ]			
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 10-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-6 ]			
* Thymus		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-3 ]			

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PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 209

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 723

HISTO: 102397

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
		Necrosis	Mild
	[ Leukemia Mononuclear TGLS = 12-1 ]		
* Eye		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Necrosis	Mild
		Nephropathy	Minimal
	Note: LEUKEMIA IS PRESENT ON SLIDES 5 AND 22.		
	[ Leukemia Mononuclear TGLS = 9-22 ]		
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
	Note: LIVER NECROSIS IS ON SLIDE 23.		
	[ Hepatodiaphragmatic Nodule TGLS = 11-23 ]		
	[ Leukemia Mononuclear TGLS = 10-6 ]		
* Lung		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 209      **TRT#:** 2      **SEX:** Female      **DAY ON TEST:** 723  
**DOSE:** 0 MG/KG      **DISP:** Moribund Sacrifice      **HISTO:** 102397

**ORGAN AND ACCOUNTABLE SITE STATUS**

Lymph Node [ Leukemia Mononuclear TGLS = 6-7 ]	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland [ Hyperplasia TGLS = 1-8 ]		Hyperplasia	Moderate
* Ovary [ Cyst TGLS = 4-7 ]		Cyst Leukemia Mononuclear	Moderate
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland [ Adenoma TGLS = 13-1 ]	Pars Distalis	Adenoma	Multiple
* Spleen [ Leukemia Mononuclear TGLS = 8-6 ] [ Necrosis TGLS = 7-21 ]		Leukemia Mononuclear Necrosis	Moderate
* Stomach, Glandular [ Erosion TGLS = 14-4 ]		Erosion	Moderate
* Urinary Bladder [ Leukemia Mononuclear TGLS = 3-8 ]		Leukemia Mononuclear	
* Uterus [ Hyperplasia TGLS = 5-7 ]	Endometrium	Hyperplasia	Cystic, Marked

PRIMARY CAUSE OF DEATH      - Spleen    Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 210

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 102398

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatocellular Adenoma	
		Leukemia Mononuclear	
[ Basophilic Focus TGLS = 5-6 ]			
[ Clear Cell Focus TGLS = 5-6 ]			
[ Hepatocellular Adenoma TGLS = 4-22 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLS = 3-21 ]			
* Pancreas		Atrophy	Minimal
		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-1 ]			
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 210

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 102398

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Leukemia Mononuclear TGLS = 2-6 ]

\* Thyroid Gland

C Cell

Hyperplasia

Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 211

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 102399

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Clitoral Gland		Inflammation	Chronic, Moderate
* Harderian GI			
Note: MULTIPLE CYSTS IN ONE HARDERIAN GLAND; CONSIDERED INCIDENTAL CHANGE AND NOT TABULATED.			
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 2-21 ]			
* Lung		Hemorrhage	Mild
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Spleen		Pigmentation	Moderate
* Stomach, Glandular	Glands	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 211

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102399

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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:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 212

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 102400

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
Lymph Node	* Nose	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

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

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
[ Hepatocellular Adenoma TGLS = 5-6 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
[ Hyperplasia TGLS = 7-23 ]			
[ Infiltration Cellular TGLS = 7-23 ]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
Note: FIBROADENOMA PRESENT ON SLIDES 8, 8-1, AND 21.			
[ Fibroadenoma TGLS = 2-21 ]			
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 4-22 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 212	<b>TRT#:</b> 2 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 733 <b>HISTO:</b> 102400
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Ovary [ Cyst TGLS = 3-7 ]		Cyst	Moderate
* Pancreas		Cyst	Moderate
* Pituitary Gland [ Adenoma TGLS = 8-1 ]	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 213

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 102401

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
[ Basophilic Focus TGLS = 2-6 ]			
[ Clear Cell Focus TGLS = 2-6 ]			
* Lung		Hemorrhage	Mild
Lymph Node	Pancreatic	Hemorrhage	Minimal
	Pancreatic	Pigmentation	Mild
[ Hemorrhage TGLS = 4-7 ]			
[ Pigmentation TGLS = 4-7 ]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Saliv Glands			
Note: CYST IN SALIVARY GLAND; CONSIDERED INCIDENTAL AND NOT TABULATED.			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 213

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732  
**HISTO:** 102401

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 214

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 102402

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Moderate
* Brain		Compression	Mild
[ Compression TGLS = 4-1 ]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[ Basophilic Focus TGLS = 3-6 ]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[ Adenoma TGLS = 5-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicle	Cyst	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 214

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 102402

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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C Cell

Hyperplasia

Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 215

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 102403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	[ Basophilic Focus TGLS = 2-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 1-8 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 216

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 535

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 97704

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Rectum	* Islets, Pancreatic	* Nose	* Pancreas
* Parathyroid Gland	Peripheral Nerve	Spinal Cord	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 18-10 ]			
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Mild
[ Compression TGLS = 16-1 ]			
* Clitoral Gland		Inflammation	Chronic, Moderate
[ Inflammation TGLS = 2-8 ]			
* Eye		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
		Leukemia Mononuclear	
		Leukemia Mononuclear	
* Liver			
[ Leukemia Mononuclear TGLS = 8-6 ]			
* Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 216      **TRT#:** 2      **SEX:** Female      **DAY ON TEST:** 535  
**DOSE:** 0 MG/KG      **DISP:** Moribund Sacrifice      **HISTO:** 97704

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Leukemia Mononuclear TGLS = 13-21 ]			
[ Leukemia Mononuclear TGLS = 11-3 ]			
[ Leukemia Mononuclear TGLS = 6-7 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 9-5 ]			
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Ovary		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-7 ]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[ Cyst TGLS = 17-1 ]		Leukemia Mononuclear	
* Salivary Glands		Atrophy	Mild
		Leukemia Mononuclear	
* Skin	Epidermis	Hyperplasia	Marked
		Inflammation	Chronic, Marked
[ Hyperplasia TGLS = 15-22 ]			
[ Inflammation TGLS = 15-22 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 7-23 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Ulcer	Marked
[ Hyperplasia TGLS = 10-4 ]			
[ Leukemia Mononuclear TGLS = 10-4 ]			
[ Ulcer TGLS = 10-4 ]			
* Stomach, Glandular		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 12-3 ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:15

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 216

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 535

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 97704

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Leukemia Mononuclear TGLS = 3-7 ]

Vagina

Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 5-7 ]

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**PRIMARY CAUSE OF DEATH**

- Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 217

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 676

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101314

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Ovary	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
Vagina			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
* Brain		Leukemia Mononuclear	
		Gliosis	Moderate
		Leukemia Mononuclear	
* Eye		Necrosis	Moderate
	Retina	Cataract	Moderate
	[ Cataract TGLS = 6-44 ]	Degeneration	Marked
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[ Hepatodiaphragmatic Nodule TGLS = 5-21 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[ Infiltration Cellular TGLS = 7-23 ]		
	[ Leukemia Mononuclear TGLS = 7-23 ]		
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:15

**First Dose M/F:** NA / NA

**Lab:** SRI

---

**ANIMAL ID:** 217

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 676

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101314

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Pancreas

Leukemia Mononuclear

\* Pituitary Gland

Pars Distalis

Cyst

Moderate

\* Spleen

Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 1-6 ]

\* Uterus

Polyp Stromal

[ Polyp Stromal TGLS = 2-22 ]

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PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 218

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 606  
**HISTO:** 98752

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Eye		Cataract	Moderate
	Retina	Degeneration	Marked
	[ Cataract TGLS = 1-44 ]		
* Liver		Basophilic Focus	
	[ Basophilic Focus TGLS = 4-23 ]		
* Lung		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
	Note: FIBROADENOMAS PRESENT ON SLIDES 8 AND 21.		
	[ Fibroadenoma TGLS = 2-21 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLS = 3-22 ]		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH** - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 219

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 102404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Clitoral Gland		Inflammation	Chronic, Moderate
[ Inflammation TGLS = 1-8 ]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Mixed Cell Focus	
* Lung		Inflammation	Chronic, Minimal
Note: SMALL AGGREGATES OF MACROPHAGES CONTAINING BROWN PIGMENT ADJACENT TO SEVERAL SMALL BLOOD VESSELS IN LUNG; TABULATED UNDER DIAGNOSIS "CHRONIC INFLAMMATION".			
* Lymph Node, Mandibular		Ectasia	Mild
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 2-8,3-21 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 5-22 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 219

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 102404

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus  
[ Polyp Stromal TGLS = 4-7 ]

Polyp Stromal

---

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 220

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102405

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Minimal
		Hypertrophy	Focal, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Carcinoma	
[ Carcinoma TGLS = 2-8 ]			
* Harderian GI			
Note: MULTIPLE CYSTS IN ONE HARDERIAN GLAND; CONSIDERED INCIDENTAL AND NOT TABULATED.			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
		Hepatodiaphragmatic Nodule	
[ Hepatocellular Adenoma TGLS = 5-21 ]			
[ Hepatodiaphragmatic Nodule TGLS = 6-22 ]			
* Lung		Metaplasia	Squamous, Moderate
[ Metaplasia TGLS = 8-23 ]			
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mediastinal	Pigmentation	Moderate
[ Pigmentation TGLS = 7-3 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:15

**First Dose M/F:** NA / NA

**Lab:** SRI

**ANIMAL ID:** 220

**TRT#:** 2

**DOSE:** 0 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733

**HISTO:** 102405

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 3-7 ]			
* Pancreas		Atrophy	Minimal
		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[ Adenoma TGLS = 9-1 ]			
* Thymus		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	C Cell	Carcinoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Polyp Stromal	

Note: THE STROMAL POLYP IS SMALL.

[ Polyp Stromal TGLS = 4-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 221

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 241  
**HISTO:** 94176

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Hemorrhage	Minimal
Note: SMALL BILATERAL FOCI OF HEMORRHAGE IN HIPPOCAMPUS.			
* Intestine Large, Cecum		Edema	Mild
* Islets, Pancreatic		Hyperplasia	Mild
Note: MILD FIBROSIS AND MILD AGGREGATES OF PIGMENT-CONTAINING MACROPHAGES AROUND ENLARGED ISLETS.			
* Kidney	Renal Tubule	Dilatation	Mild
* Liver	Centrilobular	Necrosis	Mild
* Lung		Hemorrhage	Mild
[ Hemorrhage TGLS = 8-2 ]			
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Mild
[ Hemorrhage TGLS = 7-3 ]			
[ Pigmentation TGLS = 7-3 ]			
* Lymph Node, Mesenteric		Hemorrhage	Marked
		Hyperplasia	Lymphoid, Mild
[ Hemorrhage TGLS = 4-5 ]			
* Ovary		Angiectasis	Marked
[ Angiectasis TGLS = 3-7 ]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 221	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 241
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 94176

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		
* Stomach, Forestomach	Edema	Mild
* Thymus	Hemorrhage	Minimal
[ Hemorrhage TGLS = 6-3 ]		

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**PRIMARY CAUSE OF DEATH** - Ovary Angiectasis

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 222

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102406

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Carcinoma Compression	Metastatic (Pituitary Gland) Marked
[ Carcinoma TGLS = 8-1 ]			
[ Compression TGLS = 8-1 ]			
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
* Lung		Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Carcinoma	
		Fibroadenoma	
		Hyperplasia	Mild
Note: THE MAMMARY GLAND FIBROADENOMA (A SMALL TUMOR) IS ON SLIDE 22.			
[ Carcinoma TGLS = 3-21 ]			
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 5-23,7-5 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	
[ Carcinoma TGLS = 9-1 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 222

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 102406

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Skin  
[ Keratoacanthoma TGLS = 4-22 ]

Keratoacanthoma

\* Spleen

Pigmentation

Moderate

\* Thyroid Gland

C Cell

Hyperplasia

Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 223

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 703

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101315

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	Vagina		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Marked
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic, Mild
[ Inflammation TGLS = 1-8 ]			
* Heart		Cardiomyopathy	Minimal
		Thrombosis	Marked
[ Thrombosis TGLS = 10-23 ]			
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
	Kupffer Cell	Pigmentation	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[ Leukemia Mononuclear TGLS = 8-6 ]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 223      **TRT#:** 2      **SEX:** Female      **DAY ON TEST:** 703  
**DOSE:** 0 MG/KG      **DISP:** Moribund Sacrifice      **HISTO:** 101315

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Infiltration Cellular TGLS = 11-22 ]			
Lymph Node	Mediastinal Pancreatic Mediastinal	Leukemia Mononuclear Leukemia Mononuclear Pigmentation	Mild
[ Leukemia Mononuclear TGLS = 9-3 ]			
[ Leukemia Mononuclear TGLS = 6-7 ]			
[ Pigmentation TGLS = 9-3 ]			
* Lymph Node, Mesenteric		Hemorrhage Pigmentation	Minimal Mild
* Mammary Gland		Fibroadenoma Hyperplasia	Marked
[ Fibroadenoma TGLS = 2-21 ]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[ Cyst TGLS = 12-1 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5-6 ]			
* Stomach, Forestomach	Epithelium	Edema Hyperplasia Ulcer	Moderate Moderate Moderate
[ Hyperplasia TGLS = 13-4,13-24 ]			
[ Ulcer TGLS = 13-24 ]			

**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear

Animal Note: MODERATE SUPPURATIVE INFLAMMATION IN SOFT TISSUE ADJACENT TO CLITORAL GLAND; NOT TABULATED.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 224

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 632

HISTO: 101316

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Kidney	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

\* Intestine Small, Jejunum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Brain		Angiectasis	Moderate
[ Angiectasis TGLS = 8-23 ]			
* Heart		Schwannoma Malignant	
Note: MALIGNANT SCHWANNOMA IS PRESENT ON SLIDES 5, 22, AND 22-1.			
[ Schwannoma Malignant TGLS = 10-22,10-22-1 ]			
* Liver		Basophilic Focus	
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
[ Basophilic Focus TGLS = 5-6 ]			
[ Hepatodiaphragmatic Nodule TGLS = 6-21 ]			
* Lung		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic, Moderate
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 2-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 224

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 632

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 101316

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Urin Bladder

Note: INFUSION ARTIFACT IN URINARY BLADDER.

\* Uterus

Polyp Stromal

[ Polyp Stromal TGLS = 4-7 ]

---

PRIMARY CAUSE OF DEATH

- Heart Schwannoma Malignant

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 225

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102407

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

* Intestine Small, Duodenum	* Lymph Node, Mandibular
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**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Marked
[ Compression TGLS = 9-1 ]			
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Hepatocyte	Leukemia Mononuclear	
[ Eosinophilic Focus TGLS = 8-25 ]		Vacuolization Cytoplasmic	Mild
[ Leukemia Mononuclear TGLS = 7-6 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Mild
* Mammary Gland		Carcinoma	
		Fibroadenoma	
[ Carcinoma TGLS = 2-21 ]		Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 225	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102407

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Fibroadenoma TGLS = 3-22 ]			
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLS = 4-23,5-24 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 6-7 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 10-1 ]			
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 226

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102408

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 4-23 ]			
* Lung		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3-22 ]			
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Skin	Subcut Tiss	Schwannoma Malignant	
[ Schwannoma Malignant TGLS = 2-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 227

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 102409

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
* Lung		Hemorrhage	Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Thyroid Gland	C Cell	Adenoma	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 228

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102410

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

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

* Adrenal Cortex		Degeneration	Fatty, Mild
* Clitoral Gland		Adenoma	
[ Adenoma TGLS = 1-8 ]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 2-8 ]			
* Nose	Respirat Epith	Foreign Body	
		Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
* Thyroid Gland	C Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 229

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 710

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101317

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	Vagina

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Adenoma	
		Degeneration	Fatty, Mild
* Brain		Compression	Marked
[ Compression TGLS = 4-1 ]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Cyst	Moderate
		Nephropathy	Moderate
[ Cyst TGLS = 7-22 ]			
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[ Basophilic Focus TGLS = 8-6 ]			
[ Hepatocellular Adenoma TGLS = 9-23 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[ Infiltration Cellular TGLS = 10-25 ]			
* Lymph Node, Mesenteric		Pigmentation	Moderate
* Mammary Gland		Carcinoma	
		Hyperplasia	Marked

Note: MAMMARY GLAND HYPERPLASIA IS MOST PRONOUNCED ON SLIDE 21 ADJACENT TO THE MAMMARY CARCINOMA.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 229	<b>TRT#:</b> 2 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 710 <b>HISTO:</b> 101317
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Carcinoma TGLS = 2-21 ]			
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-24 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		
CONTRIBUTORY CAUSE OF DEATH	- Mammary Gland Carcinoma		

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 230

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102411

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Adenoma	
		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[ Basophilic Focus TGLS = 4-6 ]		
	[ Clear Cell Focus TGLS = 4-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
	[ Fibroadenoma TGLS = 2-21 ]		
	[ Hyperplasia TGLS = 1-8 ]		
Mesentery	Fat	Necrosis	Minimal
	[ Necrosis TGLS = 3-22 ]		
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Cyst	Moderate
	[ Adenoma TGLS = 5-1 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 230

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732  
**HISTO:** 102411

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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:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 231

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 102412

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Inflammation	Chronic, Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		Regeneration	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: REGENERATION ASSOCIATED WITH MONONUCLEAR CELL LEUKEMIA.			
		[ Hepatodiaphragmatic Nodule TGLS = 3-21 ]	
		[ Leukemia Mononuclear TGLS = 2-6 ]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Minimal
		[ Hyperplasia TGLS = 1-8 ]	
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Cyst	Moderate
		[ Adenoma TGLS = 4-1 ]	
		[ Cyst TGLS = 5-1 ]	
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 231

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102412

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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:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 232

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 626

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98765

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Carcinoma Compression	Metastatic (Pituitary Gland) Marked
	[ Carcinoma TGLS = 2-1 ]		
	[ Compression TGLS = 2-1 ]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus Eosinophilic Focus Mixed Cell Focus	
	[ Basophilic Focus TGLS = 4-6 ]		
	[ Eosinophilic Focus TGLS = 4-6 ]		
	[ Mixed Cell Focus TGLS = 4-6 ]		
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 1-8 ]		
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Carcinoma	
	[ Carcinoma TGLS = 3-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Urin Bladder			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 232

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 626

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98765

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: INFUSION ARTIFACT IN URINARY BLADDER.

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**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Carcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 233

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 632  
**HISTO:** 101318

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Kidney	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Ileum                      \* Intestine Small, Jejunum

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Minimal
* Clitoral Gland		Inflammation	Chronic, Moderate
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Moderate
	[ Inflammation TGLS = 2-2 ]		
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
* Nose		Foreign Body	
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Note: PITUITARY GLAND ADENOMA IS CONSIDERED TOO SMALL TO HAVE CAUSED DEATH IN THE ANIMAL.		
	[ Adenoma TGLS = 3-1 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Urin Bladder			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:15

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 233

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 632

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 101318

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: INFUSION ARTIFACT IN URINARY BLADDER.

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PRIMARY CAUSE OF DEATH

- UNCERTAIN

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 234

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 550

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 98167

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Liver		Basophilic Focus Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 5-22 ]			
* Lung		Edema Infiltration Cellular Hyperplasia Pigmentation	Mild Histiocyte, Mild Lymphoid, Moderate Mild
* Lymph Node, Mesenteric			
[ Hyperplasia TGLS = 2-5 ]			
[ Pigmentation TGLS = 2-5 ]			
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Salivary Glands		Atrophy	Mild
Note: ATROPHY IS FOCAL.			
* Skin	Epidermis	Hyperplasia Inflammation	Moderate Chronic, Moderate
[ Hyperplasia TGLS = 3-21 ]			
[ Inflammation TGLS = 3-21 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 234

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 550  
**HISTO:** 98167

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen	Pigmentation	Moderate
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**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 235

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 102413

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Eye	Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	[ Hepatodiaphragmatic Nodule TGLS = 2-21 ]		
* Lung		Inflammation	Chronic, Mild
	Note: CHRONIC INFLAMMATION INCLUDES CLUSTERS OF PIGMENT-CONTAINING MACROPHAGES MAINLY SURROUNDING SMALL BLOOD VESSELS.		
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mediastinal	Pigmentation	Marked
	[ Hemorrhage TGLS = 3-3 ]		
	[ Hyperplasia TGLS = 3-3 ]		
	[ Pigmentation TGLS = 3-3 ]		
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
	[ Hyperplasia TGLS = 1-8 ]		
* Pancreas		Atrophy	Minimal
		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 235

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 102413

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 5-1 ]	Pars Distalis	Hyperplasia	Focal, Moderate
* Thyroid Gland [ Carcinoma TGLS = 4-3 ]	Follicular Cel	Carcinoma	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 236

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 654

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101319

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Brain		Compression	Moderate
		Hydrocephalus	Mild
	[ Compression TGLS = 5-1 ]		
* Clitoral Gland		Inflammation	Chronic, Mild
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
* Liver		Infiltration Cellular	Mixed Cell, Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Marked
	[ Vacuolization Cytoplasmic TGLS = 2-6 ]		
* Lung		Inflammation	Chronic, Minimal
	[ Inflammation TGLS = 8-22 ]		
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 1-8 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 6-23 ]		
* Skin	Subcut Tiss	Schwannoma Malignant	
	[ Schwannoma Malignant TGLS = 4-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 236

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 654

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101319

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Ulcer TGLS = 7-24 ]

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Stomach;Forestomach Ulcer

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 237

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732  
**HISTO:** 102414

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Small, Duodenum	Epithelium	Hyperplasia	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
Note: APPARENT FIXATION/PROCESSING ARTIFACT IN LIVER.			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 2-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Moderate
[ Adenoma TGLS = 3-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 238

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732  
**HISTO:** 102415

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Adrenal Medulla

**OBSERVATIONS**

* Eye [ Inflammation TGLS = 5-44 ]	Cornea	Inflammation	Chronic, Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland [ Hyperplasia TGLS = 4-8 ]		Hyperplasia	Mild
* Nose		Inflammation	Chronic, Mild
* Pituitary Gland [ Adenoma TGLS = 3-1 ]	Pars Distalis Pars Distalis	Adenoma Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild
Tongue [ Squamous Cell Papilloma TGLS = 6-21 ]		Squamous Cell Papilloma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 238

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102415

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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:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 239

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 102416

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Adenoma	
		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[ Basophilic Focus TGLS = 2-6 ]		
	[ Clear Cell Focus TGLS = 2-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[ Infiltration Cellular TGLS = 4-2 ]		
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 1-8 ]		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
	[ Cyst TGLS = 5-1 ]		
	[ Hyperplasia TGLS = 5-1 ]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 240

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102417

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Brain		Compression	Mild
* Clitoral Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
	[ Basophilic Focus TGLS = 2-6 ]		
	[ Hepatocellular Adenoma TGLS = 3-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[ Infiltration Cellular TGLS = 4-2 ]		
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 1-8 ]		
* Parathyroid Gland			
Note: SMALL LYMPHOID NODULE IN ONE PARATHYROID GLAND; CONSIDERED INCIDENTAL AND NOT TABULATED.			
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 5-1 ]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 240

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102417

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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:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 241

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732  
**HISTO:** 102418

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Mild
* Brain		Compression	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Necrosis	Focal, Minimal
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8,2-21 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 3-7 ]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 242

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732  
**HISTO:** 102419

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Infarct	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
	[ Fibroadenoma TGLS = 3-22 ]		
	[ Hyperplasia TGLS = 1-8,2-21 ]		
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 243	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102420

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Lymph Node, Mandibular

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**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
	[ Fibroadenoma TGLS = 2-21 ]		
	[ Hyperplasia TGLS = 1-8 ]		
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	[ Adenoma TGLS = 4-1 ]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 244

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102522

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Mild
* Clitoral Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 245

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732  
**HISTO:** 102421

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Uterus

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[ Hyperplasia TGLS = 9-6 ]		
	[ Leukemia Mononuclear TGLS = 9-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 13-2,14-24,15-25 ]		
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 12-23 ]		
	[ Leukemia Mononuclear TGLS = 10-3 ]		
	[ Leukemia Mononuclear TGLS = 3-7 ]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-8 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 245

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102421

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Leukemia Mononuclear TGLS = 7-5 ]		
* Mammary Gland	Hyperplasia	Mild
[ Hyperplasia TGLS = 2-8 ]		
* Ovary	Leukemia Mononuclear	
* Pancreas	Leukemia Mononuclear	
* Pituitary Gland	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 16-1 ]		
* Salivary Glands	Leukemia Mononuclear	
* Spleen	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-6,5-21 ]		
* Stomach, Forestomach	Leukemia Mononuclear	
* Thymus	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 8-3,11-22 ]		
* Urinary Bladder	Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

Animal Note: THE MONONUCLEAR CELL LEUKEMIA RESEMBLES MALIGNANT LYMPHOMA IN SOME TISSUES.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 246

TRT#: 2

SEX: Female

DAY ON TEST: 359

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 94602

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

\* Esophagus

Note: MILD EDEMA IN SUBMUCOSA OF ESOPHAGUS; MORPHOLOGY NOT AVAILABLE ON TDMS.

* Heart	Cardiomyopathy	Minimal
* Liver	Basophilic Focus	
	Infiltration Cellular	Mixed Cell, Mild
* Lung	Edema	Mild
* Lymph Node, Mesenteric	Pigmentation	Mild
* Spleen	Pigmentation	Moderate
* Thymus	Hemorrhage	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 247

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102422

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
	[ Basophilic Focus TGLS = 6-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLS = 2-21 ]	Hyperplasia	Mild
	[ Hyperplasia TGLS = 1-8 ]		
* Ovary		Cyst	Moderate
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Tongue		Squamous Cell Papilloma	
	[ Squamous Cell Papilloma TGLS = 5-22 ]		
* Uterus		Polyp Stromal	
	[ Polyp Stromal TGLS = 4-7 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 247

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 102422

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 248

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 102423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hypertrophy	Moderate Fatty, Moderate Focal, Moderate
Note: SMALL FOCUS OF FIBROSIS WITHIN THE AREA OF FATTY DEGENERATION; NOT TABULATED.			
* Adrenal Medulla		Hyperplasia	Minimal
* Eye	Retina	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
Note: THE ADENOMA INCLUDES A LARGE AREA OF ANGIECTASIS.			
* Uterus		Leiomyoma	
[ Leiomyoma TGLS = 2-7 ]			
Vagina		Cyst	Marked
[ Cyst TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 249

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 556

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 98168

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Intestine Small, Ileum	* Lymph Node, Mandibular
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**OBSERVATIONS**

* Clitoral Gland		Carcinoma	
		Cyst	Moderate
		Inflammation	Chronic, Moderate
[ Carcinoma TGLS = 1-21 ]			
* Liver		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 5-23 ]			
* Lung		Edema	Mild
[ Edema TGLS = 8-2 ]			
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 7-3 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Moderate
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-22 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 3-7 ]			
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Moderate
* Uterus		Polyp Stromal	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 249

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 556

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 98168

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: STROMAL POLYP ON SLIDE 7-1 IS BORDERED BY VAGINA, BUT IS ASSUMED TO HAVE ORIGINATED IN UTERUS.

[ Polyp Stromal TGLS = 6-7-1 ]

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PRIMARY CAUSE OF DEATH

- Clitoral Gland Carcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 250

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 437

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 96131

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Moderate
[ Compression TGLS = 3-1 ]			
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
[ Basophilic Focus TGLS = 5-21 ]			
[ Clear Cell Focus TGLS = 5-21 ]			
* Lung		Edema	Mild
[ Edema TGLS = 2-2 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 251

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102424

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Marked
		Hypertrophy	Focal, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[ Basophilic Focus TGLS = 6-6 ]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 4-7-1 ]			
* Pancreas		Atrophy	Moderate
[ Atrophy TGLS = 5-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[ Adenoma TGLS = 7-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLS = 3-7-2 ]			
Vagina		Granular Cell Tumor Benign	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 251

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102424

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Granular Cell Tumor Benign TGLS = 2-7 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 252

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102425

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Eye		Cataract	Mild
	Retina	Degeneration	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[ Basophilic Focus TGLS = 4-6 ]		
	[ Clear Cell Focus TGLS = 4-6 ]		
* Lung		Hemorrhage	Mild
		Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
	[ Fibroadenoma TGLS = 3-21 ]		
	[ Hyperplasia TGLS = 1-8 ]		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 252	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102425

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 5-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild

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<b>PRIMARY CAUSE OF DEATH</b>	-
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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 253

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102426

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

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

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Marked
* Mammary Gland			
[ Hyperplasia TGLS = 2-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 4-22 ]			
* Pancreas		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
[ Angiectasis TGLS = 5-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
Note: SMALL SECTION OF KERATIN ON SLIDE 21; NO SIGNIFICANT LESION VISIBLE.			
* Thyroid Gland	C Cell	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 254

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102427

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Moderate
* Brain		Compression	Mild
* Clitoral Gland		Cyst	Moderate
[ Cyst TGLS = 1-8 ]			
* Eye	Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
[ Eosinophilic Focus TGLS = 7-23 ]		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 10-25 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Ectasia	Moderate
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
Note: FOCAL AREA OF INCREASED ANAPLASIA IN ONE SECTION OF FIBROADENOMA ON SLIDE 21.			
[ Fibroadenoma TGLS = 3-21,4-22 ]			
[ Hyperplasia TGLS = 2-8 ]			
* Pancreas		Atrophy	Mild
[ Atrophy TGLS = 6-7 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 254	<b>TRT#:</b> 4 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 732 <b>HISTO:</b> 102427
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pituitary Gland [ Adenoma TGLS = 8-1 ]	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus [ Polyp Stromal TGLS = 5-7 ]		Polyp Stromal	

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 255

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 102491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
Lymph Node	Mediastinal	Hemorrhage	Marked
	Pancreatic	Hemorrhage	Moderate
	Pancreatic	Hyperplasia	Lymphoid, Mild
	Mediastinal	Pigmentation	Mild
	Pancreatic	Pigmentation	Moderate
[ Hemorrhage TGLS = 5-3 ]			
[ Hemorrhage TGLS = 4-7 ]			
[ Pigmentation TGLS = 4-7 ]			
[ Pigmentation TGLS = 5-3 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[ Fibroadenoma TGLS = 2-21 ]			
[ Hyperplasia TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 255	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 733
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102491

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLS = 3-7 ]			

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 256

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 522

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 97708

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Salivary Glands	* Skin
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Moderate
		Hydrocephalus	Mild
[ Compression TGLS = 4-1 ]			
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Edema	Mild
		Hemorrhage	Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Moderate
Note: MODERATE SINUS ECTASIA IN MEDIASTINAL LYMPH NODE; NOT TABULATED.			
[ Hyperplasia TGLS = 3-3 ]			
[ Pigmentation TGLS = 3-3 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 2-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Spleen		Pigmentation	Marked

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 257

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102428

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Marked
* Clitoral Gland		Cyst	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Hyperplasia	Lymphoid, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 258

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102429

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
	[ Basophilic Focus TGLS = 5-6 ]		
	[ Leukemia Mononuclear TGLS = 5-6 ]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 1-8 ]		
* Pancreas		Atrophy	Marked
		Cyst	Moderate
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 6-1 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 4-6 ]		
* Thymus		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 258

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102429

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Polyp Stromal

[ Polyp Stromal TGLS = 2-7-1,3-7 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 259

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 570

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98229

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Nose	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	Vagina		

**MISSING**

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

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Bone Marrow		Hyperplasia	Moderate
		Myelofibrosis	Mild
* Brain		Hemorrhage	Minimal
* Heart		Thrombosis	Marked
[ Thrombosis TGLS = 6-5 ]			
* Kidney	Renal Tubule	Necrosis	Moderate
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
	Kupffer Cell	Pigmentation	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked
[ Vacuolization Cytoplasmic TGLS = 5-6 ]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 7-1 ]			
* Spleen	Lymph Follic	Atrophy	Moderate
		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 259

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 570

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98229

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hematopoietic Cell Proliferation TGLS = 3-6 ]

\* Stomach, Glandular

Erosion

Moderate

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Heart Thrombosis

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 260

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 102492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Nose                   | * Parathyroid Gland        |
| * Salivary Glands         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

MISSING

- \* Lymph Node, Mandibular

INSUFFICIENT TISSUE

- \* Clitoral Gland

OBSERVATIONS

- |                                     |                                   |                      |
|-------------------------------------|-----------------------------------|----------------------|
| * Adrenal Cortex                    | Accessory Adrenal Cortical Nodule | Moderate             |
|                                     | Hypertrophy                       | Focal, Minimal       |
| * Bone Marrow                       | Leukemia Mononuclear              |                      |
| * Brain                             | Compression                       | Marked               |
|                                     | Hydrocephalus                     | Mild                 |
| [ Compression TGLS = 8-1 ]          |                                   |                      |
| * Kidney                            | Nephropathy                       | Minimal              |
| * Liver                             | Basophilic Focus                  |                      |
|                                     | Infiltration Cellular             | Mixed Cell, Moderate |
|                                     | Leukemia Mononuclear              |                      |
|                                     | Mixed Cell Focus                  |                      |
| [ Leukemia Mononuclear TGLS = 6-6 ] |                                   |                      |
| * Lymph Node, Mesenteric            | Hyperplasia                       | Lymphoid, Mild       |
|                                     | Pigmentation                      | Mild                 |
| * Mammary Gland                     | Fibroadenoma                      |                      |
|                                     | Hyperplasia                       | Moderate             |
| [ Fibroadenoma TGLS = 2-21 ]        |                                   |                      |
| [ Hyperplasia TGLS = 1-8 ]          |                                   |                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 260

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102492

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Ovary Note: OVARIAN CYSTS ARE PRESENT ON SLIDES 7 AND 7-1. [ Cyst TGLS = 3-7-1 ]		Cyst	Moderate
* Pancreas [ Atrophy TGLS = 5-7 ]		Atrophy	Mild
* Pituitary Gland [ Adenoma TGLS = 9-1 ]	Pars Distalis	Adenoma	
* Spleen [ Leukemia Mononuclear TGLS = 4-6 ]		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 261

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102493

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Clear Cell Focus	
* Lung	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Mild
	Pigmentation	Mild
* Mammary Gland	Fibroadenoma	
	Hyperplasia	Mild
	[ Fibroadenoma TGLS = 1-21 ]	
* Pancreas	Atrophy	Mild
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Uterus	Endometrium	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 262

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102494

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Marked
		Hydrocephalus	Mild
[ Compression TGLS = 5-1 ]			
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 4-3 ]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[ Fibroadenoma TGLS = 2-21 ]			
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3-22 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-1 ]			
* Spleen		Pigmentation	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 262

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102494

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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:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 263

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 669

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 101358

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Brain		Compression	Marked
		Hydrocephalus	Mild
[ Compression TGLS = 1-1 ]			
* Heart		Cardiomyopathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Hemorrhage	Moderate
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-21 ]			
* Spleen		Pigmentation	Marked

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 264

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102495

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Brain		Hemorrhage	Minimal
* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
	[ Cataract TGLS = 1-44 ]		
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Edema	Mild
* Islets, Pancreatic		Metaplasia	Hepatocyte, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[ Basophilic Focus TGLS = 4-6 ]		
	[ Clear Cell Focus TGLS = 4-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 2-8 ]		
* Pituitary Gland	Pars Distalis	Angiectasis	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 264	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 733
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102495

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Angiectasis TGLS = 7-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel C Cell	Adenoma Hyperplasia	Minimal
[ Adenoma TGLS = 6-3 ]			
[ Hyperplasia TGLS = 5-3 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 3-21 ]			

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 265

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 652

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101359

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Gliosis Hemorrhage Necrosis	Moderate Mild Mild
* Eye	Cornea	Inflammation	Chronic, Marked
[ Inflammation TGLS = 3-21 ]			
* Harderian Gland		Inflammation	Chronic, Marked
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Necrosis Nephropathy	Minimal Minimal
* Liver	Hepatocyte	Basophilic Focus Vacuolization Cytoplasmic	Mild
[ Vacuolization Cytoplasmic TGLS = 5-6 ]			
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
Note: MARKED THROMBOSIS AND MODERATE HEMORRHAGE ASSOCIATED WITH PITUITARY GLAND ADENOMA.			
[ Adenoma TGLS = 2-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen	Lymph Follic	Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 265

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 652

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101359

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Stomach, Glandular

Pigmentation  
Ulcer

Moderate  
Mild

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Eye Cornea Inflammation

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 266

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102496

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Thymus

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Skin	Epidermis	Hyperplasia	Minimal
Note: HYPERPLASIA INVOLVES REGULAR SKIN SECTION (SLIDE 8).			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Polyp Stromal	
[ Polyp Stromal TGLS = 2-7 ]			

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 266

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102496

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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:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 267

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 327

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 94603

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

* Lymph Node, Mandibular	* Thymus
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**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Brain		Hemorrhage	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Mild
* Lung		Edema	Moderate
		Infiltration Cellular	Histiocyte, Mild
[ Edema TGLS = 4-2 ]			
[ Infiltration Cellular TGLS = 4-2 ]			
Lymph Node	Deep Cervical	Hemorrhage	Marked
	Deep Cervical	Hyperplasia	Lymphoid, Mild
	Deep Cervical	Pigmentation	Mild
[ Hemorrhage TGLS = 5-21 ]			
[ Hyperplasia TGLS = 5-21 ]			
[ Pigmentation TGLS = 5-21 ]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild

**PRIMARY CAUSE OF DEATH**

- Lung Edema

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 268

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102497

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Clitoral Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Pigmentation	Moderate
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 2-8 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Skin	Sebaceous Gl	Adenoma	
[ Adenoma TGLS = 1-21 ]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLS = 3-7 ]			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 269

TRT#: 4

SEX: Female

DAY ON TEST: 513

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 97709

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland
* Salivary Glands	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Carcinoma	
[ Carcinoma TGLS = 1-21 ]			
* Esophagus			
Note: ESOPHAGUS IS PRESENT ON SLIDE 4.			
* Eye		Cataract	Moderate
	Retina	Degeneration	Marked
[ Cataract TGLS = 4-44 ]			
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Marked
* Liver		Basophilic Focus	
		Necrosis	Focal, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			

PRIMARY CAUSE OF DEATH

- Clitoral Gland Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 270

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 347

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 94604

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Lung	Edema	Moderate
	Hemorrhage	Mild
	Infiltration Cellular	Histiocyte, Minimal
[ Edema TGLS = 1-2 ]		
[ Hemorrhage TGLS = 1-2 ]		
* Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Moderate
* Spleen	Hematopoietic Cell Proliferation	Minimal
	Pigmentation	Moderate

**PRIMARY CAUSE OF DEATH**

- Lung Edema

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 271

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102498

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
		Inflammation	Chronic, Moderate
* Intestine Large, Cecum		Inflammation	Chronic, Moderate
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
		Inflammation	Chronic, Moderate
* Lung		Hemorrhage	Mild
Lymph Node	Mediastinal	Hemorrhage	Mild
	Pancreatic	Hemorrhage	Mild
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Mild
	Pancreatic	Pigmentation	Mild

[ Hemorrhage TGLS = 4-7 ]

[ Hyperplasia TGLS = 6-3 ]

[ Pigmentation TGLS = 4-7 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 271	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 733
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102498

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Lymph Node, Mesenteric		Ectasia	Moderate
		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
[ Fibroadenoma TGLS = 2-21,3-22 ]			
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 7-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Cyst	Moderate

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PRIMARY CAUSE OF DEATH

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Animal Note: MARKED CHRONIC INFLAMMATION AND HYPERPTROPHY OF MESENTERIC VESSEL ON SLIDE 7.

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 272	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102499

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

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**OBSERVATIONS**

* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
[ Basophilic Focus TGLS = 3-6 ]			
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 273

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102500

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Moderate
* Brain		Compression	Marked
		Hydrocephalus	Mild
	[ Compression TGLS = 2-1 ]		
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lung		Hemorrhage	Minimal
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 1-8 ]		
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Cyst	Moderate
	[ Adenoma TGLS = 3-1 ]		

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 274

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102501

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

**OBSERVATIONS**

* Clitoral Gland		Adenoma	
[ Adenoma TGLS = 2-8 ]			
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Mixed Cell Focus	
[ Basophilic Focus TGLS = 4-6 ]			
[ Mixed Cell Focus TGLS = 4-6 ]			
* Lung		Inflammation	Chronic, Minimal
Lymph Node	Pancreatic	Hemorrhage	Minimal
[ Hemorrhage TGLS = 3-7 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
Note: THE AREA OF ANGIECTASIS CONTAINS OLD HEMORRHAGE WHICH IS ARRANGED IN SPICULES AND IS SURROUNDED BY ATROPHIED CELLS OF THE ANTERIOR PITUITARY GLAND.			
[ Angiectasis TGLS = 6-1 ]			
* Spleen		Pigmentation	Moderate
* Thymus		Hemorrhage	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 274

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102501

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Hyperplasia

Minimal

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

Polyp Stromal

[ Polyp Stromal TGLS = 5-7 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 275

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102502

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Clitoral Gland		Carcinoma	
[ Carcinoma TGLS = 3-23 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
[ Infiltration Cellular TGLS = 6-2 ]			
* Lymph Node, Mandibular		Ectasia	Moderate
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[ Fibroadenoma TGLS = 2-21 ]			
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 4-22 ]			
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Ovary		Cyst	Moderate
[ Cyst TGLS = 5-7 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 275	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 733
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102502

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Adenoma	
[ Adenoma TGLS = 7-1 ]			
* Saliv Glands			
Note: 4-22			
* Skin	Epidermis	Hyperplasia	Mild
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Fibrosis	Mild
		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 276

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 102503

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Edema	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Inflammation	Chronic, Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-21 ]			
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[ Adenoma TGLS = 3-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 277

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 102504

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

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

* Brain		Hemorrhage	Mild
[ Hemorrhage TGLS = 4-1 ]			
* Clitoral Gland		Carcinoma	
[ Carcinoma TGLS = 2-22 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Hemorrhage	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Moderate
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 3-21 ]		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Spleen		Pigmentation	Moderate

**PRIMARY CAUSE OF DEATH** - Clitoral Gland Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 277

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 102504

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 278

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102505

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Clitoral Gland		Carcinoma	
[ Carcinoma TGLS = 2-22 ]			
* Eye	Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
[ Hepatodiaphragmatic Nodule TGLS = 3-21 ]		Hepatodiaphragmatic Nodule	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 279

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102506

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Moderate
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Minimal
[ Necrosis TGLS = 2-21 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 1-7 ]			
* Pancreas		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 280

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102507

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Carcinoma	
[ Carcinoma TGLS = 1-21 ]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-6 ]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Minimal
[ Hyperplasia TGLS = 6-23 ]			
[ Infiltration Cellular TGLS = 5-2,7-24 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 2-8 ]			
Mesentery	Fat	Necrosis	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 280

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102507

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Necrosis TGLS = 3-22 ]

* Ovary		Cyst	Moderate
* Pancreas		Atrophy	Mild
		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 281

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102508

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[ Infiltration Cellular TGLS = 6-2,6-23 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 1-8,2-21 ]		
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLS = 4-22 ]		
* Ovary		Cyst	Moderate
	[ Cyst TGLS = 3-7 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 7-1 ]		
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
	Follicle	Cyst	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 281

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102508

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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:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 282

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102509

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Clitoral Gland		Carcinoma	
[ Carcinoma TGLS = 3-23 ]			
* Eye		Cataract	Moderate
	Retina	Degeneration	Marked
[ Cataract TGLS = 9-44 ]			
* Intestine Large, Cecum		Edema	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
[ Basophilic Focus TGLS = 5-6 ]			
[ Hepatodiaphragmatic Nodule TGLS = 6-22 ]			
[ Leukemia Mononuclear TGLS = 5-6 ]			
* Lung	Alveolar Epith	Hyperplasia	Mild
[ Hyperplasia TGLS = 7-24 ]			
* Lymph Node, Mandibular		Ectasia	Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8,2-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild
[ Adenoma TGLS = 8-1 ]			
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 282

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102509

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus  
[ Hyperplasia TGLS = 4-7 ]

Endometrium

Hyperplasia

Cystic, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 283

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 621

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98756

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	Mesentery	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	Vagina		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Brain		Compression	Marked
		Hydrocephalus	Moderate
[ Compression TGLS = 5-1 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
[ Basophilic Focus TGLS = 4-6 ]			
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
Note: MILD ALVEOLAR PROTEINOSIS ASSOCIATED WITH THE HISTIOCYTIC INFILTRATE; CONSIDERED INCIDENTAL AND NOT TABULATED.			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Polyp Stromal	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 283

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 621

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98756

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 284

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102510

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
[ Basophilic Focus TGLS = 1-6 ]			
* Lung		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Moderate
[ Hyperplasia TGLS = 2-3 ]			
[ Pigmentation TGLS = 2-3 ]			
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 4-8 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Hyperplasia	Lymphoid, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 285

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102511

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

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

* Brain		Compression	Marked
		Hydrocephalus	Mild
	[ Compression TGLS = 6-1 ]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Mild
	[ Basophilic Focus TGLS = 3-6 ]		
	[ Eosinophilic Focus TGLS = 3-6 ]		
	[ Hepatocellular Adenoma TGLS = 3-6 ]		
* Lung		Hemorrhage	Mild
		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
	[ Hemorrhage TGLS = 4-3 ]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
	[ Fibroadenoma TGLS = 1-21 ]		
	[ Hyperplasia TGLS = 2-8 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 285	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102511

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 286

TRT#: 4

SEX: Female

DAY ON TEST: 593

DOSE: 10 MG/KG

DISP: Natural Death

HISTO: 98250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Hemorrhage	Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
[ Basophilic Focus TGLS = 1-6 ]			
* Lung		Hemorrhage	Moderate
		Inflammation	Chronic, Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
[ Adenoma TGLS = 2-1 ]			
[ Angiectasis TGLS = 2-1 ]			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 287

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102512

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-6,6-23 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[ Fibroadenoma TGLS = 8-24 ]		
	[ Hyperplasia TGLS = 1-8 ]		
Mesentery	Fat	Necrosis	Mild
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
* Skin	Subcut Tiss	Fibrosarcoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 287

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102512

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Fibrosarcoma TGLS = 2-21 ]

\* Spleen

Leukemia Mononuclear

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

Vagina

Cyst

[ Cyst TGLS = 3-7 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 288

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 554

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 98170

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Marked
[ Compression TGLS = 3-1 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lung		Hemorrhage	Moderate
[ Hemorrhage TGLS = 2-2 ]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 289

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102513

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[ Basophilic Focus TGLS = 4-6 ]			
* Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-21 ]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Skin		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 290

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 703

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101360

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
Vagina			

**MISSING**

* Intestine Small, Ileum	* Lymph Node, Mandibular
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**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Marked
* Brain		Hemorrhage	Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lung		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Moderate
[ Hemorrhage TGLS = 8-3 ]			
[ Pigmentation TGLS = 8-3 ]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 2-8 ]			
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLS = 6-22,7-23 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Skin	Subcut Tiss	Fibrosarcoma	
[ Fibrosarcoma TGLS = 3-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 290

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 703

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101360

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Endometrium

Hyperplasia

Cystic, Marked

[ Hyperplasia TGLS = 5-7 ]

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PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 291

TRT#: 4

SEX: Female

DAY ON TEST: 595

DOSE: 10 MG/KG

DISP: Natural Death

HISTO: 98251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Marked
[ Compression TGLS = 2-1 ]			
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 292

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102514

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Chronic, Mild
[ Hyperplasia TGLS = 6-8-1 ]			
[ Inflammation TGLS = 6-8-1 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
[ Clear Cell Focus TGLS = 3-22 ]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 292

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102514

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

Follicular Cel

Adenoma

\* Urin Bladder

Note: INFUSION ARTIFACT IN URINARY BLADDER.

\* Uterus

Polyp Stromal

Note: THE STROMAL POLYP (TGL 2-21) IS NECROTIC.

[ Polyp Stromal TGLS = 2-21 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 293

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 677

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101361

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Mild
* Brain		Compression	Marked
		Hydrocephalus	Moderate
	[ Compression TGLS = 5-1 ]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Hemorrhage	Mild
		Infiltration Cellular	Mixed Cell, Moderate
	[ Basophilic Focus TGLS = 7-24 ]		
	[ Hemorrhage TGLS = 2-21 ]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Adenoma	
		Hyperplasia	Marked
	[ Adenoma TGLS = 3-22 ]		
	[ Hyperplasia TGLS = 1-8 ]		

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 293	<b>TRT#:</b> 4 <b>DOSE:</b> 10 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 677 <b>HISTO:</b> 101361
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pituitary Gland [ Adenoma TGLS = 4-23 ]	Pars Distalis	Adenoma	
* Salivary Glands		Atrophy	Moderate
* Skin Note: THE EPITHELIAL INCLUSION CYST IS ON SLIDE 8 IN A SECTION OF SKIN DETACHED FROM THE REGULAR SKIN SECTION.		Cyst Epithelial Inclusion	
* Spleen		Hematopoietic Cell Proliferation	Mild

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PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 294

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 102515

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Moderate
* Liver		Basophilic Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[ Basophilic Focus TGLS = 1-6 ]			
* Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Moderate
[ Inflammation TGLS = 3-2 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Pigmentation	Moderate

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 295

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 522

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 97710

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Marked
[ Compression TGLS = 2-1 ]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Spleen		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 296

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 712

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 102516

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Nose	* Ovary
* Parathyroid Gland	Peripheral Nerve	* Salivary Glands	* Skin
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	Vagina

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Brain		Hemorrhage	Minimal
* Eye		Cataract	Mild
	Retina	Degeneration	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Pigmentation	Moderate
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Carcinoma	
[ Angiectasis TGLS = 6-1 ]			
[ Carcinoma TGLS = 6-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 296	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 712
	<b>DOSE:</b> 10 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 102516

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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		Necrosis	Moderate
		Pigmentation	Moderate
[ Leukemia Mononuclear TGLS = 3-22 ]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
Zymbal's Gland		Carcinoma	
[ Carcinoma TGLS = 5-21 ]			

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PRIMARY CAUSE OF DEATH	- Zymbal's Gland	Carcinoma	
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland	Pars Distalis	Carcinoma;Spleen
			Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:16

**First Dose M/F:** NA / NA

**Lab:** SRI

**ANIMAL ID:** 297

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 248

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 94557

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                       |                     |
|--------------------------|-----------------------|---------------------|
| * Lung                   | Edema                 | Moderate            |
|                          | Hemorrhage            | Minimal             |
|                          | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mesenteric | Hyperplasia           | Lymphoid, Mild      |
| * Pancreas               | Atrophy               | Minimal             |
| * Thymus                 | Hemorrhage            | Mild                |

**PRIMARY CAUSE OF DEATH**

- Lung Edema

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 298

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102517

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Clitoral Gland		Cyst	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[ Basophilic Focus TGLS = 4-6 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-21 ]			
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Angiectasis	Mild
[ Adenoma TGLS = 3-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 298

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102517

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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:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 299

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102518

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	[ Basophilic Focus TGLS = 2-6 ]		
	[ Hepatodiaphragmatic Nodule TGLS = 3-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Hemorrhage	Mild
	[ Alveolar/Bronchiolar Adenoma TGLS = 6-2 ]		
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Moderate
	[ Hyperplasia TGLS = 4-3 ]		
	[ Pigmentation TGLS = 4-3 ]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 1-8 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 5-1 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 300

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 102519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Brain		Granular Cell Tumor Benign	
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
	[ Hepatodiaphragmatic Nodule TGLS = 5-23 ]		
	[ Mixed Cell Focus TGLS = 4-22 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
		Ectasia	Mild
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Moderate
* Mammary Gland			
	[ Hyperplasia TGLS = 1-8 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
	[ Polyp Stromal TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 301

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102457

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Glioma Malignant	Mixed Cell
[ Glioma Malignant TGLS = 4-1 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 2-21 ]		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicle	Cyst	Moderate
	Follicular Cel	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 302

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102458

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Thymus

**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

**OBSERVATIONS**

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
Note: FIXATION/PROCESSING ARTIFACT IN LIVER.			
		[ Basophilic Focus TGLS = 2-6 ]	
		[ Hepatodiaphragmatic Nodule TGLS = 3-21 ]	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		[ Infiltration Cellular TGLS = 5-2 ]	
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Moderate
		[ Hemorrhage TGLS = 4-3 ]	
		[ Pigmentation TGLS = 4-3 ]	
* Mammary Gland		Hyperplasia	Marked
		[ Hyperplasia TGLS = 1-8 ]	
* Pituitary Gland	Pars Distalis	Adenoma	Multiple

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 302	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 20 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102458

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 6-1 ]

* Skin	Epidermis	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 303

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102459

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Gliosis	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[ Adenoma TGLS = 2-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Carcinoma	
[ Carcinoma TGLS = 3-3 ]			
Tongue		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 4-22 ]			
* Urinary Bladder		Papilloma	
[ Papilloma TGLS = 5-21 ]			

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 303

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102459

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 304

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102460

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	Vagina	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 6-10 ]			
* Adrenal Medulla		Hyperplasia	Moderate
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Moderate
Note: THE MYELOFIBROSIS INCLUDES AN AREA OF INCREASED OSSIFICATION; NOT TABULATED.			
* Brain		Gliosis	Moderate
		Leukemia Mononuclear	
		Necrosis	Moderate
* Clitoral Gland		Inflammation	Chronic, Mild
* Intestine Small, Jejunum	Epithelium	Hyperplasia	Minimal
* Kidney		Nephropathy	Moderate
[ Nephropathy TGLS = 7-5 ]			
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
		Necrosis	Focal, Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Marked
[ Leukemia Mononuclear TGLS = 8-6 ]			
[ Necrosis TGLS = 8-6 ]			
[ Vacuolization Cytoplasmic TGLS = 8-6 ]			

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 304	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 733
	<b>DOSE:</b> 20 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102460

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Lung		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 14-22 ]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5-7 ]			
[ Leukemia Mononuclear TGLS = 10-3 ]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Pigmentation	Mild
[ Hemorrhage TGLS = 9-5 ]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[ Fibroadenoma TGLS = 11-21 ]			
[ Hyperplasia TGLS = 1-8 ]			
* Ovary		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[ Adenoma TGLS = 12-1 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-6 ]			
* Stomach, Glandular		Erosion	Moderate
[ Erosion TGLS = 15-4,15-23 ]			

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 305

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102461

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLS = 1-8 ]		
* Ovary		Cyst	Moderate
	[ Cyst TGLS = 2-7 ]		
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 306

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102462

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	Vagina

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hypertrophy	Focal, Minimal
* Brain		Compression	Marked
[ Compression TGLS = 4-1 ]			
* Clitoral Gland		Inflammation	Chronic, Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hemorrhage	Mild
		Infiltration Cellular	Mixed Cell, Minimal
[ Basophilic Focus TGLS = 3-6 ]			
[ Clear Cell Focus TGLS = 3-6 ]			
[ Hemorrhage TGLS = 3-6 ]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Mild
Note: MILD ALVEOLAR PROTEINOSIS AMONG HYPEPLASTIC ALVEOLI; CONSIDERED INCIDENTAL AND NOT TABULATED.			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 306

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102462

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Pituitary Gland

Pars Distalis

Adenoma

[ Adenoma TGLS = 5-1 ]

Vagina

Note: CHANGES OF METESTRUS EVIDENT IN VAGINA; CONSIDERED PHYSIOLOGICAL CHANGE.

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 307

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 570

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98228

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Marked
		Hydrocephalus	Mild
[ Compression TGLS = 4-1 ]			
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mediastinal	Pigmentation	Moderate
[ Hyperplasia TGLS = 3-3 ]			
[ Pigmentation TGLS = 3-3 ]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLS = 2-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Pigmentation	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:16

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 307

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 570

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98228

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 308

TRT#: 6

SEX: Female

DAY ON TEST: 682

DOSE: 20 MG/KG

DISP: Natural Death

HISTO: 101349

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Liver	Basophilic Focus	
	Hepatodiaphragmatic Nodule	
	Mixed Cell Focus	
[ Basophilic Focus TGLS = 4-6 ]		
[ Hepatodiaphragmatic Nodule TGLS = 3-22 ]		
[ Mixed Cell Focus TGLS = 1-21,4-6 ]		
* Lung	Infiltration Cellular	Histiocyte, Mild
	Inflammation	Chronic, Moderate
* Mammary Gland	Hyperplasia	Mild
* Spleen	Hematopoietic Cell Proliferation	Mild
	Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 309

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 20 MG/KG

DISP: Terminal Sacrifice

HISTO: 102463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    |
| * Nose                   | * Ovary                    | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Salivary Glands          | * Skin                    | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          | * Uterus                  |                             |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |   |                                   |                 |
|---|-----------------------------------|-----------------|
| * Adrenal Cortex  | Accessory Adrenal Cortical Nodule | Moderate        |
|   | Degeneration                      | Fatty, Moderate |
|   | Hypertrophy                       | Focal, Mild     |
| * Heart   | Cardiomyopathy                    | Mild            |
| * Liver   | Basophilic Focus                  |                 |
|   | Eosinophilic Focus                |                 |
| * Lung  | Inflammation                      | Chronic, Mild   |
| Note: FOCI OF PIGMENT-CONTAINING MACROPHAGES SURROUNDING SMALL BLOOD VESSELS IN LUNG. |                                   |                 |
| * Lymph Node, Mesenteric  | Hemorrhage                        | Minimal         |
|   | Hyperplasia                       | Lymphoid, Mild  |
| * Mammary Gland   | Hyperplasia                       | Minimal         |
| [ Hyperplasia TGLS = 1-8 ]  |                                   |                 |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 310

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102464

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[ Fibroadenoma TGLS = 2-21 ]		
	[ Hyperplasia TGLS = 1-8 ]		
* Ovary		Cyst	Moderate
	[ Cyst TGLS = 3-7 ]		
* Pancreas		Atrophy	Minimal
		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus		Polyp Stromal	
	[ Polyp Stromal TGLS = 4-7 ]		

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 311

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102465

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Ovary	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Adenoma	
* Eye		Cataract	Moderate
	Retina	Degeneration	Marked
[ Cataract TGLS = 4-44 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Mixed Cell Focus	
Note: APPARENT FIXATION/PROCESSING ARTIFACT IN LIVER.			
[ Mixed Cell Focus TGLS = 3-21 ]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
[ Angiectasis TGLS = 5-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLS = 2-7 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 311

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102465

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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:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 312

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102466

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	Skeletal Muscle	* Skin	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Carcinoma	Multiple
[ Carcinoma TGLS = 2-22,3-23 ]			
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Moderate
[ Hyperplasia TGLS = 5-21 ]			
[ Infiltration Cellular TGLS = 5-21 ]			
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:16

**First Dose M/F:** NA / NA

**Lab:** SRI

---

**ANIMAL ID:** 312

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102466

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 313

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 20 MG/KG

DISP: Terminal Sacrifice

HISTO: 102467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Nose                   | * Ovary                    |
| * Parathyroid Gland       | * Salivary Glands           | * Skin                   | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           | * Uterus                 |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                                 |               |                       |                     |
|---------------------------------|---------------|-----------------------|---------------------|
| * Adrenal Cortex                |               | Degeneration          | Fatty, Mild         |
| * Adrenal Medulla               |               | Hyperplasia           | Minimal             |
| * Bone Marrow                   |               | Hyperplasia           | Mild                |
| * Heart                         |               | Cardiomyopathy        | Moderate            |
| * Liver                         |               | Basophilic Focus      |                     |
| [ Basophilic Focus TGLS = 3-6 ] |               |                       |                     |
| * Lung                          |               | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mesenteric        |               | Pigmentation          | Mild                |
| * Mammary Gland                 |               | Fibroadenoma          |                     |
| [ Fibroadenoma TGLS = 2-21 ]    |               | Hyperplasia           | Mild                |
| * Pancreas                      |               | Cyst                  | Moderate            |
| * Pituitary Gland               | Pars Distalis | Cyst                  | Moderate            |
|                                 | Pars Distalis | Hyperplasia           | Focal, Moderate     |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 314

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 465

**DOSE:** 20 MG/KG

**DISP:** Natural Death

**HISTO:** 96135

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Glioma Malignant	Mixed Cell
[ Glioma Malignant TGLS = 3-1 ]			
* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lung		Edema	Moderate
		Hemorrhage	Marked
[ Edema TGLS = 1-2 ]			
[ Hemorrhage TGLS = 1-2 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 2-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild
[ Adenoma TGLS = 4-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen	Lymph Follic	Hyperplasia	Mild
		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Uterus		Polyp Stromal	

**PRIMARY CAUSE OF DEATH** - Brain Glioma Malignant

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 314

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 465

**DOSE:** 20 MG/KG

**DISP:** Natural Death

**HISTO:** 96135

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma; Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 315

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102468

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	[ Basophilic Focus TGLS = 4-6 ]		
	[ Hepatodiaphragmatic Nodule TGLS = 2-21 ]		
* Lung		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLS = 1-8 ]		
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	[ Angiectasis TGLS = 3-1 ]		
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Cyst	Moderate

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 316

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 712

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 102469

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Trachea
Vagina			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Necrosis	Mild
* Eye	Retina	Dysplasia	Minimal
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Edema	Moderate
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
		[ Hyperplasia TGLS = 8-6 ]	
		[ Leukemia Mononuclear TGLS = 8-6 ]	
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[ Hyperplasia TGLS = 12-2 ]	
		[ Leukemia Mononuclear TGLS = 11-2 ]	
Lymph Node	Mediastinal	Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 10-22 ]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 316

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 712

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 102469

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Leukemia Mononuclear TGLS = 6-21 ]			
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Intermed	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
		Pigmentation	Moderate
[ Leukemia Mononuclear TGLS = 5-6 ]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular	Glands	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Ulcer	Mild
[ Leukemia Mononuclear TGLS = 13-23 ]			
[ Ulcer TGLS = 13-23 ]			
* Thymus		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 9-22 ]			
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLS = 3-7 ]			

**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 317	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 20 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102470

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

\* Lymph Node, Mandibular

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**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

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**OBSERVATIONS**

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[ Basophilic Focus TGLS = 4-6 ]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Moderate
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[ Fibroadenoma TGLS = 3-21 ]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus		Polyp Stromal	Multiple
[ Polyp Stromal TGLS = 1-7,2-7 ]			

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 318

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102471

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Hepatodiaphragmatic Nodule	
	[ Hepatodiaphragmatic Nodule TGLS = 2-21 ]	Vacuolization Cytoplasmic	Mild
* Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Hyperplasia	Lymphoid, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Thymus		Hyperplasia	Lymphoid, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 319

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102472

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Clitoral Gland		Inflammation	Chronic, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
		[ Fibroadenoma TGLS = 1-21 ]	
		[ Hyperplasia TGLS = 2-8 ]	
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
		[ Adenoma TGLS = 4-1 ]	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	
		[ Polyp Stromal TGLS = 3-7 ]	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 319

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102472

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: ONE ADRENAL GLAND PRESENT ON SLIDE 5.

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 320

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 535

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 97705

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	Vagina	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Marked
[ Compression TGLS = 3-1 ]			
* Heart		Cardiomyopathy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 2-3 ]			
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Spleen		Pigmentation	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 321

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102473

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mediastinal	Pigmentation	Marked
		[ Hemorrhage TGLS = 3-3 ]	
		[ Hyperplasia TGLS = 3-3 ]	
		[ Pigmentation TGLS = 3-3 ]	
* Mammary Gland		Hyperplasia	Moderate
		[ Hyperplasia TGLS = 1-8 ]	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Marked
		[ Hyperplasia TGLS = 2-21 ]	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 322

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102474

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[ Fibroadenoma TGLS = 2-21 ]			
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3-22 ]			
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild
[ Adenoma TGLS = 4-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 322

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102474

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Stomach, Forestomach

Squamous Cell Papilloma

[ Squamous Cell Papilloma TGLS = 5-23 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 323

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102475

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
[ Infiltration Cellular TGLS = 5-23,6-22 ]			
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Minimal
[ Pigmentation TGLS = 3-3 ]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
[ Fibroadenoma TGLS = 2-21 ]			
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Intermed	Angiectasis	Moderate
	Pars Distalis	Cyst	Moderate
	Pars Intermed	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 323	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 20 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102475

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Angiectasis TGLS = 4-1 ]			
[ Angiectasis TGLS = 4-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Moderate

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 324

TRT#: 6

SEX: Female

DAY ON TEST: 384

DOSE: 20 MG/KG

DISP: Natural Death

HISTO: 96136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                          |               |                                  |                     |
|--------------------------|---------------|----------------------------------|---------------------|
| * Liver                  |               | Basophilic Focus                 |                     |
|                          |               | Infiltration Cellular            | Mixed Cell, Mild    |
| * Lung                   |               | Edema                            | Moderate            |
|                          |               | Hemorrhage                       | Minimal             |
|                          |               | Infiltration Cellular            | Histiocyte, Minimal |
| * Lymph Node, Mesenteric |               | Hyperplasia                      | Lymphoid, Mild      |
| * Pituitary Gland        | Pars Distalis | Cyst                             | Moderate            |
| * Spleen                 |               | Hematopoietic Cell Proliferation | Minimal             |
|                          |               | Pigmentation                     | Moderate            |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 325

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102476

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Focal, Moderate
* Clitoral Gland		Inflammation	Chronic, Mild
* Liver		Basophilic Focus	
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Mild
[ Hyperplasia TGLS = 4-3 ]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[ Fibroadenoma TGLS = 2-21 ]			
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3-22 ]			
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 326

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 102477

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	* Skin	Spinal Cord	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Moderate
* Brain		Compression	Marked
* Clitoral Gland		Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Cyst	Moderate
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
	[ Cyst TGLS = 2-21 ]		
	[ Hepatodiaphragmatic Nodule TGLS = 4-22 ]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic, Mild
	[ Hyperplasia TGLS = 6-23 ]		
	[ Infiltration Cellular TGLS = 5-2,6-23 ]		

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 326	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 20 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 102477

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Inflammation TGLS = 6-23 ]			
* Mammary Gland		Hyperplasia	Moderate
* Nose		Foreign Body	
* Pancreas		Atrophy	Mild
	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
[ Ulcer TGLS = 7-24 ]			
* Stomach, Glandular		Edema	Moderate
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 327

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 703

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101350

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Moderate
* Brain		Compression	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[ Basophilic Focus TGLS = 9-6 ]			
[ Eosinophilic Focus TGLS = 9-6 ]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
[ Hyperplasia TGLS = 7-23,8-24 ]			
[ Infiltration Cellular TGLS = 8-24 ]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[ Fibroadenoma TGLS = 6-22 ]			
[ Hyperplasia TGLS = 4-8 ]			
* Pancreas		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 327	<b>TRT#:</b> 6 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 703 <b>HISTO:</b> 101350
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pituitary Gland [ Adenoma TGLS = 5-1 ]	Pars Distalis	Adenoma	
* Skin [ Hyperplasia TGLS = 10-25 ] [ Ulcer TGLS = 10-25 ]	Epidermis	Hyperplasia Ulcer	Marked Marked
* Spleen [ Leukemia Mononuclear TGLS = 3-21 ] [ Necrosis TGLS = 2-21 ]		Leukemia Mononuclear Necrosis	Marked
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

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PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 328

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102478

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

**OBSERVATIONS**

* Brain		Compression	Marked
[ Compression TGLS = 4-1 ]			
* Clitoral Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 3-22 ]			
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 328

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102478

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

C Cell

Hyperplasia

Mild

---

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:16

**First Dose M/F:** NA / NA

**Lab:** SRI

**ANIMAL ID:** 329

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 646

**DOSE:** 20 MG/KG

**DISP:** Natural Death

**HISTO:** 101351

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Nose	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Parathyroid Gland

**OBSERVATIONS**

* Brain		Compression	Moderate
[ Compression TGLS = 4-1 ]			
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
[ Basophilic Focus TGLS = 5-21 ]			
[ Eosinophilic Focus TGLS = 5-21 ]			
* Lung		Inflammation	Chronic, Moderate
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 2-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Spleen		Pigmentation	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 329

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 646

**DOSE:** 20 MG/KG

**DISP:** Natural Death

**HISTO:** 101351

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 330

TRT#: 6

SEX: Female

DAY ON TEST: 606

DOSE: 20 MG/KG

DISP: Moribund Sacrifice

HISTO: 98755

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Moderate
[ Compression TGLS = 8-1 ]			
* Clitoral Gland		Adenoma	
Note: THE CLITORAL GLAND ADENOMA IS RELATIVELY SMALL.			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[ Hepatodiaphragmatic Nodule TGLS = 5-23 ]		Hepatodiaphragmatic Nodule	
* Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Moderate
[ Hemorrhage TGLS = 6-3 ]			
[ Pigmentation TGLS = 6-3 ]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
[ Fibroadenoma TGLS = 2-21,3-22 ]		Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 330	<b>TRT#:</b> 6 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 606 <b>HISTO:</b> 98755
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 1-8 ] * Ovary		Cyst	Moderate
[ Cyst TGLS = 4-7 ] * Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 7-1 ] * Spleen		Hematopoietic Cell Proliferation	Moderate

---

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 331	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 20 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102479

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

---

**MISSING**

\* Lymph Node, Mandibular

---

**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

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**OBSERVATIONS**

* Brain		Compression	Marked
[ Compression TGLS = 6-1 ]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
[ Hepatodiaphragmatic Nodule TGLS = 5-22 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
[ Fibroadenoma TGLS = 1-21 ]			
* Pancreas		Atrophy	Mild
		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 7-1 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 331

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102479

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Hematopoietic Cell Proliferation

Mild

\* Uterus

Polyp Stromal

[ Polyp Stromal TGLS = 2-7 ]

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 332

TRT#: 6

SEX: Female

DAY ON TEST: 686

DOSE: 20 MG/KG

DISP: Natural Death

HISTO: 101352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Moderate
[ Compression TGLS = 5-1 ]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Eosinophilic Focus	
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mediastinal	Pigmentation	Moderate
[ Hyperplasia TGLS = 4-3 ]			
[ Pigmentation TGLS = 4-3 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Carcinoma	
		Hyperplasia	Marked
[ Carcinoma TGLS = 7-22 ]			
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3-21 ]			
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 332

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 686

**DOSE:** 20 MG/KG

**DISP:** Natural Death

**HISTO:** 101352

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Adenoma TGLS = 6-23 ]

\* Spleen

Pigmentation

Moderate

\* Uterus

Polyp Stromal

[ Polyp Stromal TGLS = 2-7 ]

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PRIMARY CAUSE OF DEATH

- Mammary Gland Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Kidney Nephropathy; Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 333

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 20 MG/KG

DISP: Terminal Sacrifice

HISTO: 102480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
[ Basophilic Focus TGLS = 3-6 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[ Fibroadenoma TGLS = 2-21 ]			
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 334

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 684

**DOSE:** 20 MG/KG

**DISP:** Natural Death

**HISTO:** 101353

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Salivary Glands	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Inflammation	Chronic, Moderate
* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
[ Cataract TGLS = 5-44 ]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
[ Basophilic Focus TGLS = 7-22 ]			
[ Eosinophilic Focus TGLS = 7-22 ]			
[ Hepatodiaphragmatic Nodule TGLS = 8-23 ]			
[ Mixed Cell Focus TGLS = 7-22 ]			
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Ovary		Cyst	Moderate
[ Cyst TGLS = 1-7 ]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 334	<b>TRT#:</b> 6 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 684 <b>HISTO:</b> 101353
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus	Endometrium	Hyperplasia Polyp Stromal	Cystic, Mild

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[ Polyp Stromal TGLS = 2-7 ]

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PRIMARY CAUSE OF DEATH	- UNCERTAIN
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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 335

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 20 MG/KG

DISP: Terminal Sacrifice

HISTO: 102481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow            | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Eye                    | * Harderian Gland           |
| * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Kidney                    |
| * Lymph Node, Mesenteric | * Nose                     | * Ovary                  | * Parathyroid Gland         |
| * Salivary Glands        | * Skin                     | * Spleen                 | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Trachea                | * Urinary Bladder           |
| * Uterus                 |                            |                          |                             |

MISSING

- \* Lymph Node, Mandibular

INSUFFICIENT TISSUE

- \* Intestine Large, Rectum

OBSERVATIONS

- |                   |  |                            |                  |
|-------------------|--|----------------------------|------------------|
| * Adrenal Cortex  |  | Hypertrophy                | Focal, Mild      |
| * Liver           |  | Basophilic Focus           |                  |
|                   |  | Hepatodiaphragmatic Nodule |                  |
|                   | [ Basophilic Focus TGLS = 3-6 ]            |                            |                  |
|                   | [ Hepatodiaphragmatic Nodule TGLS = 4-21 ] |                            |                  |
| * Lung            |  | Hemorrhage                 | Mild             |
|                   |  | Inflammation               | Chronic, Minimal |
| Lymph Node        | Pancreatic                                 | Hemorrhage                 | Mild             |
|                   | Pancreatic                                 | Pigmentation               | Moderate         |
|                   | [ Hemorrhage TGLS = 2-7 ]                  |                            |                  |
|                   | [ Pigmentation TGLS = 2-7 ]                |                            |                  |
| * Mammary Gland   |  | Fibroadenoma               |                  |
|                   |  | Hyperplasia                | Mild             |
|                   | [ Fibroadenoma TGLS = 6-22 ]               |                            |                  |
|                   | [ Hyperplasia TGLS = 1-8 ]                 |                            |                  |
| * Pancreas        |  | Atrophy                    | Minimal          |
| * Pituitary Gland | Pars Distalis                              | Adenoma                    |                  |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 335	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 20 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102481

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Adenoma TGLS = 7-1 ]		
* Thyroid Gland	C Cell	Carcinoma
[ Carcinoma TGLS = 5-3 ]		

---

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 336

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102482

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 3-22 ]			
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[ Adenoma TGLS = 4-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 337

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102483

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Nose	* Ovary	* Parathyroid Gland
Peripheral Nerve	* Salivary Glands	* Skin	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Moderate
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Cyst	Moderate
* Eye	Retina	Degeneration	Moderate
[ Degeneration TGLS = 5-44 ]			
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
[ Infiltration Cellular TGLS = 6-23 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-21 ]		Hyperplasia	Moderate
[ Hyperplasia TGLS = 2-8 ]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 337	<b>TRT#:</b> 6 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 732 <b>HISTO:</b> 102483
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen	Pars Distalis	Cyst	Moderate
	Lymph Follic	Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Marked
Note: TGL 4 IS COMPOSED OF HYPERPLASTIC LYMPHOHISTIOCYTIC CELLS IN SPLEEN. LYMPH NODE NOT EVIDENT IN LESION. [ Hyperplasia TGLS = 4-22 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 338

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102484

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hypertrophy Angiectasis	Moderate Fatty, Moderate Focal, Mild Mild
* Brain			
[ Angiectasis TGLS = 10-1 ]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Infiltration Cellular	Mixed Cell, Minimal
[ Basophilic Focus TGLS = 9-6 ]			
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Mild
[ Hyperplasia TGLS = 6-23 ]			
[ Infiltration Cellular TGLS = 6-23 ]			
Lymph Node	Mediastinal	Ectasia	Mild
	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Moderate
[ Hemorrhage TGLS = 5-3 ]			
[ Pigmentation TGLS = 5-3 ]			
* Lymph Node, Mesenteric		Pigmentation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 338	<b>TRT#:</b> 6 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 733 <b>HISTO:</b> 102484
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Mammary Gland [ Fibroadenoma TGLS = 2-21 ] [ Hyperplasia TGLS = 1-8 ]		Fibroadenoma Hyperplasia	Moderate
Mesentery [ Necrosis TGLS = 3-22 ]	Fat	Necrosis	Mild
* Ovary [ Cyst TGLS = 4-7 ]		Cyst	Moderate
* Pancreas		Atrophy Cyst	Mild Moderate
* Pituitary Gland [ Adenoma TGLS = 7-1 ] [ Angiectasis TGLS = 8-1 ]	Pars Distalis Pars Intermed	Adenoma Angiectasis	Moderate
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 339

TRT#: 6

SEX: Female

DAY ON TEST: 690

DOSE: 20 MG/KG

DISP: Moribund Sacrifice

HISTO: 101354

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Skin
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	Vagina

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
[ Cataract TGLS = 2-44 ]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	
[ Clear Cell Focus TGLS = 5-6 ]			
[ Mixed Cell Focus TGLS = 5-6 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
Oral Mucosa		Squamous Cell Carcinoma	
[ Squamous Cell Carcinoma TGLS = 6-21,6-21-1 ]			
* Pancreas		Atrophy	Minimal
* Salivary Glands		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 339

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 690

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101354

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Spleen

Hematopoietic Cell Proliferation

Moderate

\* Thyroid Gland

Follicle

Cyst

Moderate

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PRIMARY CAUSE OF DEATH

- Oral Mucosa Squamous Cell Carcinoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 340

TRT#: 6

SEX: Female

DAY ON TEST: 641

DOSE: 20 MG/KG

DISP: Natural Death

HISTO: 101355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Minimal
* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[ Basophilic Focus TGLS = 3-6 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Nose	Respirat Epith	Foreign Body	
		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 340

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 641

**DOSE:** 20 MG/KG

**DISP:** Natural Death

**HISTO:** 101355

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 341

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 20 MG/KG

DISP: Terminal Sacrifice

HISTO: 102485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Marked
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
[ Compression TGLS = 6-1 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
		Leukemia Mononuclear	
[ Basophilic Focus TGLS = 3-22 ]			
[ Hepatocellular Adenoma TGLS = 7-24 ]			
* Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-23 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8,2-21 ]			
* Ovary		Leukemia Mononuclear	
* Pancreas		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Carcinoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 341	<b>TRT#:</b> 6 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 732 <b>HISTO:</b> 102485
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Carcinoma TGLS = 5-1 ] [ Leukemia Mononuclear TGLS = 5-1 ]		Leukemia Mononuclear	
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 342

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 535

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 97706

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Leukemia Mononuclear	
* Heart		Thrombosis	Moderate
[ Thrombosis TGLS = 5-5 ]			
* Kidney		Leukemia Mononuclear	
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Lung		Metaplasia	Osseous, Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Moderate
[ Leukemia Mononuclear TGLS = 4-3 ]			
[ Pigmentation TGLS = 4-3 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Heart Thrombosis

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 343

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102486

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

**OBSERVATIONS**

* Adrenal Cortex	Degeneration	Fatty, Moderate
* Clitoral Gland [ Adenoma TGLS = 2-8 ]	Adenoma	
* Heart	Cardiomyopathy	Mild
* Kidney	Nephropathy	Mild
* Liver [ Hepatocellular Adenoma TGLS = 5-23 ] [ Hepatodiaphragmatic Nodule TGLS = 4-22 ]	Basophilic Focus Hepatocellular Adenoma Hepatodiaphragmatic Nodule	
* Lung	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric	Hyperplasia Pigmentation	Lymphoid, Mild Mild
* Mammary Gland [ Fibroadenoma TGLS = 3-21 ] [ Hyperplasia TGLS = 1-8 ]	Fibroadenoma Hyperplasia	Marked
* Pancreas	Atrophy	Minimal
* Pituitary Gland Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 343

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102486

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Adenoma TGLS = 6-1 ]	Pars Distalis	Cyst	Moderate
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 344

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 20 MG/KG

DISP: Terminal Sacrifice

HISTO: 102487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
Note: A PORTION OF ONE ADRENAL GLAND IS ON SLIDE 5.			
* Brain		Compression	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Adenoma	
		Carcinoma	
		Fibroadenoma	
		Hyperplasia	Marked
[ Adenoma TGLS = 1-8 ]			
[ Carcinoma TGLS = 3-22 ]			
[ Fibroadenoma TGLS = 2-21 ]			
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 344	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 733
	<b>DOSE:</b> 20 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102487

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 345

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102488

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Adenoma	
[ Adenoma TGLS = 1-8 ]			
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
Note: TGL 5 IS PROBABLY A DEVELOPMENTAL MALFORMATION; MORPHOLOGY NOT AVAILABLE ON TDMS.			
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Hyperplasia	Moderate
* Mammary Gland			
[ Hyperplasia TGLS = 2-8 ]			
Mesentery		Fibrosarcoma	
[ Fibrosarcoma TGLS = 4-22 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin	Subcut Tiss	Fibroma	
[ Fibroma TGLS = 3-21 ]			
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 346

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 649

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101356

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Thymus	* Trachea	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 11-22 ]			
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Renal Tubule	Dilatation	Mild
	Transit Epithe	Hyperplasia	Moderate
		Infarct	Moderate
		Nephropathy	Mild
[ Infarct TGLS = 8-23 ]			
* Liver		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
[ Leukemia Mononuclear TGLS = 9-6 ]			
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
[ Infiltration Cellular TGLS = 10-24 ]			
[ Inflammation TGLS = 10-24 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 2-8 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 346	<b>TRT#:</b> 6 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 649 <b>HISTO:</b> 101356
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
		Necrosis	Marked
	[ Hematopoietic Cell Proliferation TGLS = 4-21 ]		
	[ Leukemia Mononuclear TGLS = 3-21,4-21 ]		
	[ Necrosis TGLS = 3-21 ]		
* Stomach, Glandular		Erosion	Moderate
	[ Erosion TGLS = 12-25 ]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Hemorrhage	Moderate
	[ Hemorrhage TGLS = 5-8 ]		

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**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 347

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 701

**DOSE:** 20 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101357

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Mild
* Eye	Retina	Degeneration	Minimal
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hemorrhage	Mild
		Infiltration Cellular	Mixed Cell, Mild
[ Eosinophilic Focus TGLS = 7-24 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
		Metaplasia	Osseous, Minimal
		Metaplasia	Squamous, Mild
[ Metaplasia TGLS = 4-23 ]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
[ Fibroadenoma TGLS = 1-21 ]			
* Nose	Respirat Epith	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 347	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 701
	<b>DOSE:</b> 20 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 101357

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Oral Mucosa		Inflammation Cyst	Chronic, Mild Moderate
Note: TGL 6-22 IS AN EPITHELIAL INCLUSION CYST; MORPHOLOGY UNAVAILABLE ON TDMS. [ Cyst TGLS = 6-22 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 2-7 ]			
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma
CONTRIBUTORY CAUSE OF DEATH	- Oral Mucosa Cyst; Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 348

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102489

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Minimal
		Hypertrophy	Focal, Minimal
		Inflammation	Chronic, Moderate
* Clitoral Gland			
[ Inflammation TGLS = 2-8 ]			
* Heart		Cardiomyopathy	Mild
* Liver		Angiectasis	Mild
		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[ Fibroadenoma TGLS = 5-22 ]			
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLS = 4-21 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 348	<b>TRT#:</b> 6 <b>DOSE:</b> 20 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 732 <b>HISTO:</b> 102489
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
[ Adenoma TGLS = 6-1 ]			
[ Angiectasis TGLS = 6-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLS = 3-7 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 349

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 536

**DOSE:** 20 MG/KG

**DISP:** Natural Death

**HISTO:** 97707

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

* Intestine Large, Colon	* Lymph Node, Mandibular
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**OBSERVATIONS**

* Brain		Compression	Moderate
[ Compression TGLS = 1-1 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Edema	Moderate
[ Edema TGLS = 3-2 ]		Hemorrhage	Mild
[ Hemorrhage TGLS = 3-2 ]			
* Mammary Gland		Hyperplasia	Moderate
* Pancreas		Atrophy	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-1 ]			
* Spleen		Pigmentation	Moderate
* Thymus		Hemorrhage	Mild

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:16

**First Dose M/F:** NA / NA

**Lab:** SRI

**ANIMAL ID:** 350

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102490

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Bone                    | * Bone Marrow               | * Brain                  |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Mammary Gland             | * Nose                   |
| * Ovary                    | * Pancreas                | * Parathyroid Gland         | Peripheral Nerve         |
| * Salivary Glands          | Skeletal Muscle           | * Skin                      | Spinal Cord              |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         | * Uterus                    |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                                      |               |                         |                      |
|--------------------------------------|---------------|-------------------------|----------------------|
| * Adrenal Medulla                    |               | Pheochromocytoma Benign |                      |
| * Clitoral Gland                     |               | Inflammation            | Chronic, Mild        |
| * Heart                              |               | Cardiomyopathy          | Mild                 |
| * Kidney                             |               | Nephropathy             | Minimal              |
| * Liver                              |               | Basophilic Focus        |                      |
|                                      |               | Clear Cell Focus        |                      |
|                                      |               | Infiltration Cellular   | Mixed Cell, Mild     |
| * Lung                               |               | Emphysema               | Marked               |
|                                      |               | Infiltration Cellular   | Histiocyte, Moderate |
|                                      |               | Inflammation            | Chronic, Moderate    |
|                                      |               |                         |                      |
| [ Emphysema TGLS = 3-2 ]             |               |                         |                      |
| [ Infiltration Cellular TGLS = 2-2 ] |               |                         |                      |
| [ Inflammation TGLS = 2-2 ]          |               |                         |                      |
| * Lymph Node, Mesenteric             |               | Pigmentation            | Mild                 |
| * Pituitary Gland                    | Pars Distalis | Hyperplasia             | Focal, Moderate      |
| * Spleen                             |               | Leukemia Mononuclear    |                      |
| * Urin Bladder                       |               |                         |                      |

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 350

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 20 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102490

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 351

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102430

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

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

* Adrenal Cortex		Degeneration	Fatty, Marked
		Hypertrophy	Focal, Mild
[ Degeneration TGLS = 7-10 ]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Marked
* Clitoral Gland		Carcinoma	
[ Carcinoma TGLS = 3-8 ]			
* Eye	Cornea	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 8-6 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
[ Fibroadenoma TGLS = 2-21 ]			
[ Hyperplasia TGLS = 1-8,4-22,9-24 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 351	<b>TRT#:</b> 8 <b>DOSE:</b> 40 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 102430
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Mesentery [ Necrosis TGLS = 6-23 ]	Fat	Necrosis	Mild
* Pancreas		Atrophy	Moderate
* Pituitary Gland [ Adenoma TGLS = 10-1 ]	Pars Distalis	Adenoma	
* Skin	Epidermis, SOA SOA	Hyperplasia Inflammation	Minimal Chronic, Minimal
* Spleen [ Leukemia Mononuclear TGLS = 5-6 ]		Leukemia Mononuclear	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 352	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 40 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102431

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

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**MISSING**

\* Lymph Node, Mandibular

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**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

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**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
		Cyst	Moderate
* Clitoral Gland			
[ Cyst TGLS = 3-8 ]			
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[ Fibroadenoma TGLS = 2-21,4-22 ]		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Adenoma	

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 353

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102432

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration Hypertrophy	Fatty, Marked Focal, Moderate
[ Degeneration TGLS = 3-10 ]			
* Brain		Compression	Moderate
[ Compression TGLS = 5-1 ]			
* Liver		Basophilic Focus	
* Lung		Hemorrhage	Moderate
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Pigmentation	Mild
[ Hemorrhage TGLS = 4-3 ]			
[ Pigmentation TGLS = 4-3 ]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[ Fibroadenoma TGLS = 2-21 ]			
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[ Adenoma TGLS = 6-1 ]			

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 353

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102432

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Moderate

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 354

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 40 MG/KG

DISP: Terminal Sacrifice

HISTO: 102433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	[ Basophilic Focus TGLS = 1-6 ]		
* Lung		Hemorrhage	Mild
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	[ Cyst TGLS = 2-1 ]		
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 355

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 662

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101320

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
Vagina			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	Subcut Tiss	Fibroma	
	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
[ Fibroma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Polyp Stromal	

**PRIMARY CAUSE OF DEATH**

- Skin Subcut Tiss Fibroma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 356	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 733
	<b>DOSE:</b> 40 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102434

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Lymph Node, Mandibular

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**OBSERVATIONS**

* Clitoral Gland		Inflammation	Chronic, Moderate
* Eye	Retina	Degeneration	Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
	[ Basophilic Focus TGLS = 1-6 ]		
	[ Hepatodiaphragmatic Nodule TGLS = 2-21 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Adenoma	

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 357

TRT#: 8

SEX: Female

DAY ON TEST: 697

DOSE: 40 MG/KG

DISP: Moribund Sacrifice

HISTO: 101321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder
Vagina			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex	Degeneration	Fatty, Moderate
* Brain	Compression	Moderate
[ Compression TGLS = 7-1 ]		
* Kidney	Nephropathy	Mild
* Liver	Basophilic Focus	
	Eosinophilic Focus	
	Infiltration Cellular	Mixed Cell, Mild
[ Basophilic Focus TGLS = 8-6 ]		
[ Eosinophilic Focus TGLS = 8-6 ]		
* Lung	Infiltration Cellular	Histiocyte, Minimal
	Inflammation	Chronic, Minimal
	Pigmentation	Mild
Note: THE PIGMENT WITHIN MACROPHAGES IN LUNG IS POSITIVE FOR IRON AND IS PRESUMED TO REPRESENT HEMOSIDERIN.		
Note: "CHRONIC INFLAMMATION" IN THIS ANIMAL AND MANY OTHERS INCLUDES AGGREGATES OF MACROPHAGES CONTAINING BROWNISH BLACK PIGMENT AROUND SMALL BLOOD VESSELS.		
* Lymph Node, Mesenteric	Pigmentation	Mild
* Mammary Gland	Fibroadenoma	
	Hyperplasia	Moderate
[ Fibroadenoma TGLS = 3-21 ]		
[ Hyperplasia TGLS = 2-8 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 357	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 697
	<b>DOSE:</b> 40 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 101321

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Carcinoma	
Note: TWO SEPARATE NEOPLASMS (ONE ADENOMA, ONE CARCINOMA) ARE PRESENT IN THE PARS DISTALIS.			
	[ Adenoma TGLS = 6-22 ]		
	[ Carcinoma TGLS = 6-22 ]		
* Spleen		Pigmentation	Moderate
* Stomach, Glandular		Erosion	Mild
* Thyroid Gland	C Cell	Carcinoma	
	[ Carcinoma TGLS = 5-3 ]		
* Uterus		Polyp Stromal	

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PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Carcinoma
CONTRIBUTORY CAUSE OF DEATH	- Thyroid Gland C Cell Carcinoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 358

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 40 MG/KG

DISP: Terminal Sacrifice

HISTO: 102435

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                          |                            |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla        | * Bone                      | * Brain                  | * Clitoral Gland           |
| * Esophagus              | * Eye                       | * Harderian Gland        | * Intestine Large, Cecum   |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic     | * Lung                      | * Lymph Node, Mesenteric | * Nose                     |
| * Ovary                  | * Pancreas                  | * Parathyroid Gland      | * Salivary Glands          |
| * Skin                   | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Thyroid Gland          | * Trachea                   | * Urinary Bladder        | * Uterus                   |

MISSING

- \* Lymph Node, Mandibular

INSUFFICIENT TISSUE

- \* Intestine Large, Rectum

OBSERVATIONS

- |                                 |               |                                  |                    |
|---------------------------------|---------------|----------------------------------|--------------------|
| * Adrenal Cortex                |               | Adenoma                          |                    |
| * Bone Marrow                   |               | Infiltration Cellular            | Histiocyte, Marked |
| * Heart                         |               | Cardiomyopathy                   | Mild               |
| * Kidney                        |               | Nephropathy                      | Minimal            |
| * Liver                         |               | Basophilic Focus                 |                    |
| [ Basophilic Focus TGLS = 2-6 ] |               |                                  |                    |
| * Mammary Gland                 |               | Hyperplasia                      | Mild               |
| [ Hyperplasia TGLS = 1-8 ]      |               |                                  |                    |
| * Pituitary Gland               | Pars Distalis | Adenoma                          |                    |
|                                 | Pars Distalis | Hyperplasia                      | Focal, Mild        |
| [ Adenoma TGLS = 3-1 ]          |               |                                  |                    |
| * Spleen                        |               | Hematopoietic Cell Proliferation | Mild               |
|                                 | Lymph Follic  | Hyperplasia                      | Moderate           |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 359

TRT#: 8

SEX: Female

DAY ON TEST: 663

DOSE: 40 MG/KG

DISP: Natural Death

HISTO: 101322

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                          |                          |                             |
|--------------------------|--------------------------|--------------------------|-----------------------------|
| * Bone                   | * Clitoral Gland         | * Esophagus              | * Eye                       |
| * Harderian Gland        | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic     | * Nose                   | * Parathyroid Gland         |
| * Skin                   | * Stomach, Forestomach   | * Stomach, Glandular     | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder        | * Uterus                 | Vagina                      |

MISSING

- |                          |          |
|--------------------------|----------|
| * Lymph Node, Mandibular | * Thymus |
|--------------------------|----------|

AUTO PRECLUDES DIAG.

- \* Intestine Small, Jejunum

INSUFFICIENT TISSUE

- \* Intestine Large, Rectum

OBSERVATIONS

- |                   |                                     |                      |                |
|-------------------|-------------------------------------|----------------------|----------------|
| * Adrenal Cortex  |                                     | Degeneration         | Fatty, Minimal |
|                   |                                     | Leukemia Mononuclear |                |
| * Adrenal Medulla |                                     | Leukemia Mononuclear |                |
| * Bone Marrow     |                                     | Leukemia Mononuclear |                |
|                   |                                     | Myelofibrosis        | Mild           |
| * Brain           |                                     | Leukemia Mononuclear |                |
| * Heart           |                                     | Cardiomyopathy       | Minimal        |
|                   |                                     | Leukemia Mononuclear |                |
| * Kidney          |                                     | Leukemia Mononuclear |                |
|                   | Renal Tubule                        | Necrosis             | Mild           |
| * Liver           |                                     | Leukemia Mononuclear |                |
|                   |                                     | Necrosis             | Focal, Minimal |
|                   | [ Leukemia Mononuclear TGLS = 5-6 ] |                      |                |
| * Lung            |                                     | Leukemia Mononuclear |                |
| Lymph Node        | Renal                               | Leukemia Mononuclear |                |

Note: NECROSIS ASSOCIATED WITH LEUKEMIA IS PRESENT IN RENAL LYMPH NODE; NOT TABULATED.

[ Leukemia Mononuclear TGLS = 7-21 ]

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 359	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 663
	<b>DOSE:</b> 40 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 101322

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
* Ovary		Cyst	Moderate
		Leukemia Mononuclear	
[ Cyst TGLS = 1-7 ]			
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-6 ]			

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 360

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 617

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98753

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Carcinoma	Metastatic (Thyroid Gland)
* Liver		Basophilic Focus	
		Carcinoma	Metastatic (Thyroid Gland)
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
[ Basophilic Focus TGLS = 6-6 ]			
[ Carcinoma TGLS = 7-25 ]			
[ Hepatodiaphragmatic Nodule TGLS = 5-24 ]			
* Lung		Carcinoma	Metastatic (Thyroid Gland)
		Infiltration Cellular	Histiocyte, Mild
[ Carcinoma TGLS = 9-2 ]			
Lymph Node	Deep Cervical	Carcinoma	Metastatic (Thyroid Gland)
	Mediastinal	Carcinoma	Metastatic (Thyroid Gland)
	Renal	Carcinoma	Metastatic (Thyroid Gland)
	Pancreatic	Hemorrhage	Mild
	Pancreatic	Pigmentation	Moderate
[ Carcinoma TGLS = 2-21,11-27 ]			
[ Carcinoma TGLS = 3-22 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 360

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 617

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98753

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Carcinoma TGLS = 8-26 ]			
[ Hemorrhage TGLS = 13-7 ]			
[ Pigmentation TGLS = 13-7 ]			
* Lymph Node, Mesenteric		Hemorrhage	Moderate
		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[ Cyst TGLS = 14-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Carcinoma	Metastatic (Thyroid Gland)
[ Carcinoma TGLS = 4-23 ]			
* Thyroid Gland	C Cell	Carcinoma	
[ Carcinoma TGLS = 10-3 ]			
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLS = 12-7 ]			

**PRIMARY CAUSE OF DEATH** - Thyroid Gland C Cell Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 361

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102436

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
		Mixed Cell Focus	
	[ Eosinophilic Focus TGLS = 4-6 ]		
	[ Infiltration Cellular TGLS = 4-6 ]		
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLS = 1-8 ]		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 2-21 ]		
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	[ Adenoma TGLS = 6-1 ]		
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 361

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102436

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Adenoma

\* Uterus

Polyp Stromal

[ Polyp Stromal TGLS = 3-7 ]

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 362

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 703

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101323

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Salivary Glands	* Skin	Spinal Cord
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration Hyperplasia Leukemia Mononuclear	Fatty, Mild Focal, Minimal
[ Leukemia Mononuclear TGLS = 6-10 ]			
* Bone Marrow		Leukemia Mononuclear Myelofibrosis	Mild
* Brain		Compression Leukemia Mononuclear	Mild
[ Compression TGLS = 9-1 ]			
* Eye	Cornea	Inflammation	Chronic, Minimal
* Harderian Gland		Adenoma	
Note: HARDERIAN GLAND ADENOMA IS ON SLIDE 44 ADJACENT TO EYE.			
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet Nephropathy	Moderate Minimal
* Liver		Angiectasis Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
	Kupffer Cell	Necrosis Pigmentation	Focal, Minimal Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:16

**First Dose M/F:** NA / NA

**Lab:** SRI

**ANIMAL ID:** 362

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 703

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101323

**ORGAN AND ACCOUNTABLE SITE STATUS**

Hepatocyte	Vacuolization Cytoplasmic	Moderate
[ Hepatodiaphragmatic Nodule TGLS = 7-23 ]		
[ Hyperplasia TGLS = 10-6 ]		
[ Leukemia Mononuclear TGLS = 10-6 ]		
* Lung	Leukemia Mononuclear	
* Lymph Node, Mesenteric	Pigmentation	Mild
* Mammary Gland	Hyperplasia	Moderate
[ Hyperplasia TGLS = 2-8 ]		
Mesentery	Fat	Necrosis
[ Necrosis TGLS = 3-21 ]		Moderate
* Pituitary Gland	Pars Distalis	Adenoma
[ Adenoma TGLS = 8-1 ]		Leukemia Mononuclear
* Spleen	Fibrosis	Moderate
[ Fibrosis TGLS = 5-22 ]		Leukemia Mononuclear
[ Leukemia Mononuclear TGLS = 4-22 ]		
* Stomach, Forestomach	Edema	Moderate
[ Ulcer TGLS = 11-24 ]	Ulcer	Marked
* Stomach, Glandular	Edema	Moderate
[ Ulcer TGLS = 11-24 ]	Ulcer	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 363

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 673

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 101324

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

**OBSERVATIONS**

* Clitoral Gland		Adenoma	
Note: THE CLITORAL GLAND ADENOMA IS SMALL. [ Adenoma TGLS = 2-8 ]			
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
[ Basophilic Focus TGLS = 6-6 ]			
* Lung		Inflammation	Chronic, Minimal
Note: PIGMENT SECONDARY TO HEMORRHAGE.			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
Note: FOCAL AREA WITHIN FIBROADENOMA OF HYPERCELLULARITY AND ANAPLASIA SUGGESTIVE OF EARLY CARCINOMATOUS TRANSFORMATION. [ Fibroadenoma TGLS = 3-21 ] [ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 363	<b>TRT#:</b> 8 <b>DOSE:</b> 40 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 673 <b>HISTO:</b> 101324
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Uterus	Endometrium	Hyperplasia Polyp Stromal	Cystic, Moderate
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Note: THE STROMAL POLYP IS NECROTIC.

[ Hyperplasia TGLS = 4-7,7-7 ]

[ Polyp Stromal TGLS = 5-22 ]

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PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma
CONTRIBUTORY CAUSE OF DEATH	- Uterus Polyp Stromal

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 364

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102437

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Ovary	* Parathyroid Gland	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

* Lymph Node, Mandibular	* Salivary Glands
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**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Carcinoma	
[ Carcinoma TGLS = 3-22 ]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
[ Basophilic Focus TGLS = 7-6 ]			
[ Hepatocellular Adenoma TGLS = 8-24 ]			
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 4-23,5-8 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 9-1 ]			
* Skin	Subcut Tiss	Fibroma	
	Epidermis, SOA	Hyperplasia	Minimal
[ Fibroma TGLS = 2-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild
		Ultimobranchial Cyst	Moderate
* Uterus		Carcinoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 364

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102437

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Carcinoma TGLS = 6-7 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 365

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 469

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 96132

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Lung		Edema	Mild
		Hemorrhage	Mild
[ Edema TGLS = 1-2 ]			
[ Hemorrhage TGLS = 1-2 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-1 ]			
* Spleen		Pigmentation	Moderate

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 366

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 593

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98247

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	Vagina

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Liver		Leukemia Mononuclear	
Note: EXTENSIVE NECROSIS WITHIN AREAS OF LEUKEMIA INFILTRATION.			
[ Leukemia Mononuclear TGLS = 5-6 ]			
* Mammary Gland		Hyperplasia	Minimal
[ Hyperplasia TGLS = 1-8 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 2-21 ]			
* Pancreas		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-7 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Leukemia Mononuclear	

**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 367

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 667

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101325

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

* Lymph Node, Mandibular	* Thymus
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**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	[ Basophilic Focus TGLS = 3-22 ]		
	[ Hepatodiaphragmatic Nodule TGLS = 4-23 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 1-8 ]		
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma	
	Epidermis, SOA	Hyperplasia	Minimal
	[ Fibroma TGLS = 2-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 367

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 667

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101325

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 5-3 ]

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PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 368

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102438

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Minimal
* Int Lg Colon			
Note: COLON IS PRESENT ON SLIDE 3.			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Hyperplasia	Mild
* Mammary Gland			
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 3-21 ]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 369

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 703

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 101326

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Compression	Moderate
[ Compression TGLS = 6-1 ]			
* Eye	Cornea	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[ Basophilic Focus TGLS = 4-6 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 2-21 ]		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Polyp Stromal	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 369

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 703

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 101326

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Polyp Stromal TGLS = 7-7 ]

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:16

**First Dose M/F:** NA / NA

**Lab:** SRI

**ANIMAL ID:** 370

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 725

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 102439

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
		Pheochromocytoma Malignant	
	[ Pheochromocytoma Malignant TGLS = 2-23 ]		
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Edema	Moderate
* Intestine Large, Rectum		Hemorrhage	Mild
* Kidney		Hemorrhage	Moderate
	[ Hemorrhage TGLS = 4-5 ]		
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Necrosis	Focal, Mild
	[ Basophilic Focus TGLS = 5-6 ]		
	[ Hepatodiaphragmatic Nodule TGLS = 6-22 ]		
	[ Necrosis TGLS = 5-6 ]		
* Lymph Node, Mesenteric		Hemorrhage	Moderate
	[ Hemorrhage TGLS = 3-5 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 370	<b>TRT#:</b> 8 <b>DOSE:</b> 40 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 725 <b>HISTO:</b> 102439
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas		Necrosis	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hemorrhage	Marked
		Pigmentation	Marked
Note: APPARENT DEVELOPMENTAL MALFORMATION OF SPLEEN ON SLIDE 21; MORPHOLOGY UNAVAILABLE ON TDMS. [ Pigmentation TGLS = 1-21 ]			
* Thymus		Hemorrhage	Moderate
[ Hemorrhage TGLS = 7-3 ]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

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PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 371

TRT#: 8

SEX: Female

DAY ON TEST: 456

DOSE: 40 MG/KG

DISP: Moribund Sacrifice

HISTO: 96133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Salivary Glands	* Skin
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

INSUFFICIENT TISSUE

\* Mammary Gland

OBSERVATIONS

* Brain		Glioma Malignant	Mixed Cell
[ Glioma Malignant TGLS = 2-1 ]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Angiectasis	Mild
* Pituitary Gland	Pars Intermed	Cyst	Moderate
	Pars Distalis	Pigmentation	Mild
* Spleen		Ultimobranchial Cyst	Moderate
* Thyroid Gland		Polyp Stromal	
* Uterus			
[ Polyp Stromal TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

- Brain Glioma Malignant

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 372

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102440

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 4-6 ]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Marked
	[ Hyperplasia TGLS = 1-8 ]		
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
	[ Angiectasis TGLS = 5-1 ]		
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:16

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 372

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102440

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Leukemia Mononuclear TGLS = 3-6 ]

\* Urin Bladder

Note: INFUSION ARTIFACT IN URINARY BLADDER.

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 373

TRT#: 8

SEX: Female

DAY ON TEST: 646

DOSE: 40 MG/KG

DISP: Moribund Sacrifice

HISTO: 101327

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mesenteric
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OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Brain		Compression	Marked
		Hydrocephalus	Mild
[ Compression TGLS = 5-1 ]			
* Eye	Cornea	Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lung		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
[ Fibroadenoma TGLS = 3-21 ]			
[ Hyperplasia TGLS = 2-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Carcinoma	
[ Carcinoma TGLS = 4-3 ]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma;Thyroid Gland C Cell Carcinoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 373

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 646

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101327

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 374

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 617

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98754

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	Vagina	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 7-10 ]			
* Adrenal Medulla		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 7-10 ]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Mild
		Leukemia Mononuclear	
[ Compression TGLS = 12-1 ]			
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Leukemia Mononuclear	
	Renal Tubule	Necrosis	Moderate
[ Accumulation, Hyaline Droplet TGLS = 8-5 ]			
[ Leukemia Mononuclear TGLS = 8-5 ]			
[ Necrosis TGLS = 8-5 ]			
* Liver		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 9-6 ]			
* Lung		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 11-3 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 374

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 617

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98754

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Leukemia Mononuclear TGLS = 5-7 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 10-5 ]			
* Mammary Gland		Fibroadenoma Hyperplasia	Moderate
[ Fibroadenoma TGLS = 3-21 ]			
[ Hyperplasia TGLS = 2-8 ]			
* Ovary		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst	Moderate
[ Adenoma TGLS = 13-1 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 6-6 ]			
* Stomach, Forestomach		Edema Ulcer Erosion	Mild Moderate Moderate
* Stomach, Glandular			
[ Erosion TGLS = 14-4,14-22 ]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma;Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 375

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 559

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98169

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus	Vagina	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Marked
[ Compression TGLS = 7-1 ]			
* Liver	Hepatocyte	Hepatodiaphragmatic Nodule Vacuolization Cytoplasmic	Moderate
[ Hepatodiaphragmatic Nodule TGLS = 4-22 ]			
* Lung		Hemorrhage Metaplasia	Mild Osseous, Minimal
[ Hemorrhage TGLS = 6-2 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
Note: MAMMARY GLAND PRESENT ADJACENT TO CLITORAL GLAND ON SLIDE 8.			
[ Fibroadenoma TGLS = 2-21 ]			
* Nose		Inflammation	Chronic, Moderate
* Pancreas		Atrophy	Moderate
[ Atrophy TGLS = 10-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 8-1 ]			
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia Ulcer	Moderate Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 375

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 559

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98169

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Ulcer TGLS = 9-4 ]

\* Thyroid Gland

C Cell

Hyperplasia

Mild

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 376

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 593

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98248

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Moderate
* Brain		Carcinoma	Metastatic (Pituitary Gland)
		Compression	Moderate
	[ Carcinoma TGLS = 2-1 ]		
	[ Compression TGLS = 2-1 ]		
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLS = 1-21 ]		
* Pituitary Gland	Pars Distalis	Carcinoma	
	[ Carcinoma TGLS = 3-1 ]		
* Spleen		Leukemia Mononuclear	
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 376

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 593

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98248

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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CONTRIBUTORY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 377

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 40 MG/KG

DISP: Terminal Sacrifice

HISTO: 102441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	Vagina	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hemorrhage	Moderate
		Leukemia Mononuclear	
		Necrosis	Focal, Mild
	[ Hemorrhage TGLS = 7-21 ]		
	[ Leukemia Mononuclear TGLS = 6-6,7-21 ]		
* Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Note: A FEW CHOLESTEROL CLEFTS PRESENT IN CONJUNCTION WITH HISTIOCYTIC INFILTRATE.		
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 8-22 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLS = 2-8 ]		

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 377	<b>TRT#:</b> 8 <b>DOSE:</b> 40 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 102441
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Nose	Respirat Epith	Foreign Body Hyperplasia Inflammation	Mild Chronic, Moderate
* Pancreas		Atrophy	Mild
* Pituitary Gland [ Carcinoma TGLS = 10-1 ]	Pars Distalis	Carcinoma	
* Spleen [ Leukemia Mononuclear TGLS = 5-6 ]		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus [ Carcinoma TGLS = 3-7 ]		Carcinoma	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 378

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102442

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Salivary Glands	Skeletal Muscle
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
[ Cataract TGLS = 2-44 ]			
* Heart		Cardiomyopathy	Mild
* Intestine Small, Duodenum		Leiomyoma	
[ Leiomyoma TGLS = 4-4 ]			
* Islets, Pancreatic		Adenoma	
* Liver		Basophilic Focus	
* Lung		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[ Adenoma TGLS = 3-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
* Spleen		Pigmentation	Moderate

Note: THE SPLENIC PIGMENT IS TYPICAL OF HEMOSIDERIN.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 378

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102442

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Hyperplasia

Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 379

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 713

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 102443

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
	Centrilobular	Necrosis	Mild
Note: LIVER SECTION ON SLIDE 24 HAS AN APPARENT DEVELOPMENTAL MALFORMATION (INCIDENTAL FINDING); MORPHOLOGY UNAVAILABLE ON TDMS. [ Basophilic Focus TGLS = 2-22 ]			
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Glandular		Erosion	Mild
[ Erosion TGLS = 3-4,3-23 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Sarcoma	

Note: LESION ON SLIDE 21 APPEARS TO BE A MALIGNANT SCHWANNOMA; MORPHOLOGY UNAVAILABLE ON TDMS AND TABULATED AS "SARCOMA".

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 379

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 713

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 102443

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Sarcoma TGLS = 1-21 ]

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PRIMARY CAUSE OF DEATH

- Uterus Sarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 380

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 40 MG/KG

DISP: Terminal Sacrifice

HISTO: 102444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
[ Infiltration Cellular TGLS = 3-22 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[ Fibroadenoma TGLS = 2-21 ]			
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 381

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 627

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 101328

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Eye	Cornea	Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Angiectasis	Marked
[ Angiectasis TGLS = 5-1 ]			
* Skin	Epidermis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hemorrhage	Mild
		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 381	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 627
	<b>DOSE:</b> 40 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 101328

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hematopoietic Cell Proliferation TGLS = 4-21 ]

[ Hemorrhage TGLS = 3-21 ]

[ Leukemia Mononuclear TGLS = 4-21 ]

* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 382

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102445

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration Hypertrophy	Fatty, Minimal Focal, Minimal
Note: ZONE OF MODERATE HEMORRHAGE IN ONE ADRENAL CORTEX; CONSIDERED INCIDENTAL AND NOT TABULATED.			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus Clear Cell Focus Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 2-21 ]			
* Lung		Hemorrhage Infiltration Cellular	Mild Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia Pigmentation	Lymphoid, Mild Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 382

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102445

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 383	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 446
	<b>DOSE:</b> 40 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 96134

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

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**MISSING**

\* Lymph Node, Mandibular

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**OBSERVATIONS**

* Int Sm Ileum			
Note: ILEUM IS PRESENT ON SLIDE 7.			
* Kidney		Nephropathy	Minimal
* Lung		Edema	Moderate
		Hemorrhage	Mild
[ Edema TGLS = 2-2 ]			
[ Hemorrhage TGLS = 2-2 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Ovary		Cyst	Moderate
[ Cyst TGLS = 1-7 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Pigmentation	Moderate

---

**PRIMARY CAUSE OF DEATH** - UNCERTAIN

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 384

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 670

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 101329

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Kidney	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**OBSERVATIONS**

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 1-8 ]		
* Pancreas		Atrophy	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[ Adenoma TGLS = 6-1 ]		
* Spleen		Fibrosis	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 384	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 670
	<b>DOSE:</b> 40 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 101329

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Hematopoietic Cell Proliferation	Mild
Leukemia Mononuclear	

[ Hematopoietic Cell Proliferation TGLS = 3-21 ]

[ Leukemia Mononuclear TGLS = 3-21 ]

* Thyroid Gland	C Cell	Adenoma
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PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 385

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102446

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Cyst	Moderate
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Adenoma	
		Fibroadenoma	
		Hyperplasia	Moderate
[ Adenoma TGLS = 3-22 ]			
[ Fibroadenoma TGLS = 2-21 ]			
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 386

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102447

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Moderate
		Inflammation	Chronic, Mild
* Clitoral Gland			
[ Inflammation TGLS = 1-8 ]			
* Heart		Cardiomyopathy	Moderate
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Lymph Node, Mandibular		Ectasia	Mild
* Lymph Node, Mesenteric		Ectasia	Moderate
		Hemorrhage	Minimal
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[ Fibroadenoma TGLS = 2-21 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 3-22 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Intermed	Angiectasis	Moderate
[ Adenoma TGLS = 4-1 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 386

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102447

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 387

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102448

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
Vagina			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Moderate
[ Hemorrhage TGLS = 7-3 ]			
[ Pigmentation TGLS = 7-3 ]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLS = 6-21 ]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Leiomyoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 387

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102448

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Leiomyoma TGLS = 4-22 ]

[ Polyp Stromal TGLS = 2-7,3-22 ]

Polyp Stromal

Multiple

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 388

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 705

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 101330

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Brain		Compression	Mild
[ Compression TGLS = 4-1 ]			
* Heart		Cardiomyopathy	Moderate
* Liver		Basophilic Focus	
[ Basophilic Focus TGLS = 6-6 ]		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 3-21 ]		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-22 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thymus		Hyperplasia	Lymphoid, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:16

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 388

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 705

**DOSE:** 40 MG/KG

**DISP:** Natural Death

**HISTO:** 101330

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 389

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102449

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Brain	* Esophagus
* Harderian Gland	* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Cyst	Moderate
[ Cyst TGLS = 1-8 ]			
* Eye		Cataract	Minimal
	Retina	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Regeneration	Mild
Note: REGENERATION ASSOCIATED WITH MONONUCLEAR CELL LEUKEMIA.			
		[ Basophilic Focus TGLS = 4-6 ]	
		[ Hepatodiaphragmatic Nodule TGLS = 5-21 ]	
		[ Leukemia Mononuclear TGLS = 4-6 ]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 6-2 ]	
* Mammary Gland		Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 389	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 733
	<b>DOSE:</b> 40 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 102449

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 2-8 ]			
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Minimal
[ Angiectasis TGLS = 7-1 ]			
[ Hyperplasia TGLS = 7-1 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-6 ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 390

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 691

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101331

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	Vagina

**MISSING**

* Lymph Node, Mandibular	* Thymus
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**OBSERVATIONS**

* Brain		Compression	Moderate
		Hydrocephalus	Mild
[ Compression TGLS = 6-1 ]			
* Eye		Cataract	Moderate
	Retina	Degeneration	Marked
	Cornea	Hyperplasia	Mild
[ Cataract TGLS = 8-44,9-44 ]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Minimal
[ Adenoma TGLS = 4-21 ]			
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
[ Infiltration Cellular TGLS = 5-2 ]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 7-22 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 390

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 691

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 101331

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Spleen

Hematopoietic Cell Proliferation  
Pigmentation

Mild  
Moderate

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 391

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102450

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
* Lung		Hemorrhage	Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	Multiple
[ Fibroadenoma TGLS = 1-21,2-22 ]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLS = 3-7 ]			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 392

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 601

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98674

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	Vagina

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Carcinoma Compression	Metastatic (Pituitary Gland) Marked
[ Carcinoma TGLS = 5-1 ]			
[ Compression TGLS = 5-1 ]			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian GI			
Note: EXCESSIVE PORPHYRIN PIGMENT IN HARDERIAN GLANDS.			
* Islets, Pancreatic		Adenoma	
Note: EXTENSIVE HEMORRHAGE AND ANGIECTASIS WITHIN ISLET CELL ADENOMA.			
[ Adenoma TGLS = 3-7 ]			
* Kidney		Nephropathy	Moderate
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Carcinoma	
[ Carcinoma TGLS = 4-1 ]			
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach		Ulcer	Moderate
[ Ulcer TGLS = 6-4 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 08:42:16

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 392

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 601

**DOSE:** 40 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 98674

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Carcinoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 393

TRT#: 8

SEX: Female

DAY ON TEST: 587

DOSE: 40 MG/KG

DISP: Moribund Sacrifice

HISTO: 98249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	Vagina	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Bone Marrow		Hyperplasia	Mild
* Heart		Inflammation	Chronic, Moderate
		Thrombosis	Moderate
[ Thrombosis TGLS = 15-5 ]			
* Intestine Large, Cecum		Edema	Moderate
[ Edema TGLS = 19-4 ]			
* Kidney	Renal Tubule	Dilatation	Mild
	Papilla	Necrosis	Marked
[ Dilatation TGLS = 8-5 ]			
[ Necrosis TGLS = 7-5 ]			
* Liver	Centrilobular	Necrosis	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[ Necrosis TGLS = 12-6 ]			
[ Vacuolization Cytoplasmic TGLS = 12-6 ]			
Lymph Node	Mediastinal	Hemorrhage	Mild
* Lymph Node, Mesenteric		Necrosis	Moderate
[ Necrosis TGLS = 14-5 ]			
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 2-8 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 393	<b>TRT#:</b> 8 <b>DOSE:</b> 40 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 587 <b>HISTO:</b> 98249
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen [ Atrophy TGLS = 6-6 ]	Lymph Follic	Atrophy	Moderate
* Stomach, Glandular		Erosion	Mild
* Uterus [ Hyperplasia TGLS = 5-7,20-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

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PRIMARY CAUSE OF DEATH - Heart Thrombosis

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 394

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 40 MG/KG

DISP: Terminal Sacrifice

HISTO: 102451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    |
| * Lung                   | * Nose                     | * Ovary                   | * Parathyroid Gland         |
| * Salivary Glands        | * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Thymus                 | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |
| * Uterus                 |                            |                           |                             |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                                   |               |                                  |                |
|-----------------------------------|---------------|----------------------------------|----------------|
| * Adrenal Cortex                  |               | Degeneration                     | Fatty, Minimal |
|                                   |               | Hyperplasia                      | Focal, Minimal |
| * Heart                           |               | Cardiomyopathy                   | Minimal        |
| * Liver                           |               | Basophilic Focus                 |                |
| * Lymph Node, Mesenteric          |               | Pigmentation                     | Mild           |
| * Mammary Gland                   |               | Fibroadenoma                     | Multiple       |
|                                   |               | Hyperplasia                      | Mild           |
|                                   |               |                                  |                |
| [ Fibroadenoma TGLS = 2-21,3-22 ] |               |                                  |                |
| [ Hyperplasia TGLS = 1-8 ]        |               |                                  |                |
| * Pancreas                        |               | Atrophy                          | Minimal        |
| * Pituitary Gland                 | Pars Distalis | Adenoma                          |                |
|                                   |               |                                  |                |
| [ Adenoma TGLS = 4-1 ]            |               |                                  |                |
| * Spleen                          |               | Hematopoietic Cell Proliferation | Minimal        |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 395

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102452

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
		Regeneration	Moderate
Note: REGENERATION ASSOCIATED WITH MONONUCLEAR CELL LEUKEMIA.			
		[ Leukemia Mononuclear TGLS = 6-6 ]	
		[ Regeneration TGLS = 7-23,8-24 ]	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
		[ Fibroadenoma TGLS = 2-21 ]	
		[ Hyperplasia TGLS = 1-8 ]	
* Nose		Foreign Body	
* Ovary		Cyst	Moderate
		[ Cyst TGLS = 3-7 ]	
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 395	<b>TRT#:</b> 8 <b>DOSE:</b> 40 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 732 <b>HISTO:</b> 102452
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Minimal
[ Adenoma TGLS = 9-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-6,5-22 ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 396

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102453

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Leukemia Mononuclear	
	[ Basophilic Focus TGLS = 2-6 ]		
	[ Clear Cell Focus TGLS = 2-6 ]		
	[ Leukemia Mononuclear TGLS = 2-6 ]		
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 1-8 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 3-1 ]		
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
	Note: SKIN, EPIDERMIS, NON-SITE OF APPLICATION: INSUFFICIENT TISSUE.		
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	Follicle	Cyst	Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93020-07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Diisopropylcarbodiimide

CAS Number: 693-13-0

Date Report Requested: 10/20/2014

Time Report Requested: 08:42:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 397

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 40 MG/KG

DISP: Terminal Sacrifice

HISTO: 102454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Clitoral Gland         |
| * Esophagus                | * Eye                     | * Harderian Gland           | * 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                     | * Ovary                   | * Pancreas                  | * Parathyroid Gland      |
| * Salivary Glands          | * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                   | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |
| * Uterus                   |                           |                             |                          |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                            |               |                       |                     |
|----------------------------|---------------|-----------------------|---------------------|
| * Adrenal Cortex           |               | Degeneration          | Fatty, Mild         |
|                            |               | Hyperplasia           | Focal, Minimal      |
| * Brain                    |               | Compression           | Moderate            |
| [ Compression TGLS = 2-1 ] |               |                       |                     |
| * Heart                    |               | Cardiomyopathy        | Minimal             |
| * Kidney                   |               | Nephropathy           | Moderate            |
| * Liver                    |               | Basophilic Focus      |                     |
|                            |               | Infiltration Cellular | Mixed Cell, Minimal |
| * Lung                     |               | Infiltration Cellular | Histiocyte, Minimal |
|                            |               | Inflammation          | Chronic, Minimal    |
| * Pituitary Gland          | Pars Distalis | Adenoma               |                     |
| [ Adenoma TGLS = 3-1 ]     |               |                       |                     |
| * Spleen                   |               | Leukemia Mononuclear  |                     |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 398

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102455

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Nose	* Ovary	* Parathyroid Gland	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
[ Infiltration Cellular TGLS = 2-22 ]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-21 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[ Adenoma TGLS = 3-1 ]			
* Salivary Glands		Atrophy	Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Minimal
* Spleen		Hyperplasia	Reticulum Cell, Moderate
Note: CORDS OF RETICULUM-LIKE CELLS INTERSPERSED WITH BLOOD-FILLED SINUSES IN RED PULP OF SPLEEN.			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

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**ANIMAL ID:** 399

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102456

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Moderate
* Bone Marrow		Leukemia Mononuclear	
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 6-6 ]			
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5-7 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-8 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 7-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-6 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 08:42:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 399

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 40 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 102456

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**ORGAN AND ACCOUNTABLE SITE STATUS**

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

\* Uterus

Polyp Stromal

[ Polyp Stromal TGLS = 3-7 ]

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PRIMARY CAUSE OF DEATH

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**\*\* END OF REPORT \*\***

\* PROTOCOL REQUIRED TISSUE