

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:28  
**First Dose M/F:** NA / NA  
**Lab:** MBA

<b>C Number:</b>	C93020
<b>Lock Date:</b>	05/16/1995
<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>	NONE

**Experiment Number:** 93020-01

**Test Type:** 14-DAY

**Route:** SKIN APPLICATION

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

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

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 01:04:28

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

**Lab:** MBA

---

**ANIMAL ID:** 1

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB229G-1

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Kidney

\* Liver

\* Lung

\* Skin

\* Spinal Cord

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:28  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB229G-2

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

<b>NORMAL</b>			
* Brain	* Kidney	* Lung	* Skin
* Spinal Cord			

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<b>OBSERVATIONS</b>			
* Liver	Centrilobular	Vacuolization Cytoplasmic	Minimal

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

**Experiment Number:** 93020-01

**Test Type:** 14-DAY

**Route:** SKIN APPLICATION

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

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

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 01:04:28

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

**Lab:** MBA

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**ANIMAL ID:** 3

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB229G-3

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Kidney

\* Liver

\* Lung

\* Skin

\* Spinal Cord

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01

**Test Type:** 14-DAY

**Route:** SKIN APPLICATION

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

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

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 01:04:28

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

**Lab:** MBA

---

**ANIMAL ID:** 4

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB229G-4

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Kidney

\* Liver

\* Lung

\* Skin

\* Spinal Cord

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01

**Test Type:** 14-DAY

**Route:** SKIN APPLICATION

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

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

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 01:04:28

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

**Lab:** MBA

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**ANIMAL ID:** 5

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB229G-5

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Kidney

\* Liver

\* Lung

\* Skin

\* Spinal Cord

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:28  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 2 <b>DOSE:</b> 10 MG/ML	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 17 <b>HISTO:</b> MB229G-6
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

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**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Mild
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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:28  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 7	<b>TRT#:</b> 2 <b>DOSE:</b> 10 MG/ML	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 17 <b>HISTO:</b> MB229G-7
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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

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**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:28  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 8	<b>TRT#:</b> 2 <b>DOSE:</b> 10 MG/ML	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 17 <b>HISTO:</b> MB229G-8
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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<b>NORMAL</b> * Brain * Spinal Cord	* Kidney	* Liver	* Lung
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<b>OBSERVATIONS</b> * Skin	SOA	Hyperkeratosis	Minimal
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<b>PRIMARY CAUSE OF DEATH</b>	-
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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:28  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 9	<b>TRT#:</b> 2 <b>DOSE:</b> 10 MG/ML	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 17 <b>HISTO:</b> MB229G-9
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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<b>NORMAL</b>			
* Brain	* Kidney	* Lung	* Spinal Cord
<b>OBSERVATIONS</b>			
* Liver	Centrilobular	Vacuolization Cytoplasmic	Minimal
* Skin	SOA	Hyperkeratosis	Minimal

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

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:28  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 10	<b>TRT#:</b> 2 <b>DOSE:</b> 10 MG/ML	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 17 <b>HISTO:</b> MB229G-10
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

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**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:28  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 11	<b>TRT#:</b> 3 <b>DOSE:</b> 30 MG/ML	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 17 <b>HISTO:</b> MB229G-11
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

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**OBSERVATIONS**

* Liver	Note: A SMALL MALFORMATION PRESENT- TERM NOT AVAILABLE. TGL 1-NCL		
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:28  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 12	<b>TRT#:</b> 3 <b>DOSE:</b> 30 MG/ML	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 17 <b>HISTO:</b> MB229G-12
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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

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**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:28  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 13	<b>TRT#:</b> 3 <b>DOSE:</b> 30 MG/ML	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 17 <b>HISTO:</b> MB229G-13
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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

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**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
	Control, Epidermis	Hyperplasia	Minimal
	Epidermis, SOA	Hyperplasia	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:28  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 14	<b>TRT#:</b> 3 <b>DOSE:</b> 30 MG/ML	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 17 <b>HISTO:</b> MB229G-14
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

---

**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:28  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 15	<b>TRT#:</b> 3 <b>DOSE:</b> 30 MG/ML	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 17 <b>HISTO:</b> MB229G-15
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Brain	* Kidney	* Lung	* Spinal Cord
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**OBSERVATIONS**

* Liver	Centrilobular	Vacuolization Cytoplasmic	Minimal
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 16	<b>TRT#:</b> 4 <b>DOSE:</b> 90 MG/ML	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 6 <b>HISTO:</b> MB229G-16
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

---

**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH

-

Animal Note: AGONAL CONGESTION AND/OR HEMORRHAGE SEEN IN SEVERAL TISSUES.

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 17	<b>TRT#:</b> 4 <b>DOSE:</b> 90 MG/ML	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 5 <b>HISTO:</b> MB229G-17
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord	Stomach, Forestomach		

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**OBSERVATIONS**

* Lung			
Note: NO LESION SEEN IN TISSUE. TGL 2-NCL			
* Skin	Control, Epidermis Epidermis, SOA	Hyperplasia Hyperplasia	Minimal Mild
Stom Forestom			
Note: NO FOREIGN BODY PRESENT IN TISSUE. TGL 1-NCL			

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 18	<b>TRT#:</b> 4 <b>DOSE:</b> 90 MG/ML	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 6 <b>HISTO:</b> MB229G-18
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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

---

**OBSERVATIONS**

\* Lung  
Note: NO TRUE LESION. AGONAL CONGESTION AND HEMORRHAGE SEEN IN SEVERAL TISSUES. TGL 1-NCL

* Skin	Control, Epidermis	Hyperplasia	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA	Inflammation	Acute, Minimal
	Epidermis, SOA	Necrosis	Mild

[ Inflammation TGLS = SKIN PAINT: TGL 2-4 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 19	<b>TRT#:</b> 4 <b>DOSE:</b> 90 MG/ML	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 5 <b>HISTO:</b> MB229G-19
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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

---

**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA	Inflammation	Acute, Mild
	Epidermis, SOA	Necrosis	Mild

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 20	<b>TRT#:</b> 4 <b>DOSE:</b> 90 MG/ML	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 5 <b>HISTO:</b> MB229G-20
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Brain	* Kidney	* Lung	* Spinal Cord
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**OBSERVATIONS**

* Liver	Centrilobular	Vacuolization Cytoplasmic	Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Acute, Minimal
	Epidermis, SOA	Necrosis	Mild

[ Inflammation TGLS = SKIN PAINT: TGL 1-4 ]

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**PRIMARY CAUSE OF DEATH**

-

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Animal Note: AGONAL CONGESTION AND/OR HEMORRHAGE SEEN IN SEVERAL TISSUES.

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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**ANIMAL ID:** 31

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB229G-31

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Kidney

\* Liver

\* Lung

\* Skin

\* Spinal Cord

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 32	<b>TRT#:</b> 7	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB229G-32

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Skin	* Spinal Cord		

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 33	<b>TRT#:</b> 7	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB229G-33

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

---

**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 34

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB229G-34

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Kidney

\* Liver

\* Lung

\* Skin

\* Spinal Cord

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 35

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB229G-35

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Kidney

\* Liver

\* Lung

\* Skin

\* Spinal Cord

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 36	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> 10 MG/ML	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB229G-36

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

---

**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01

**Test Type:** 14-DAY

**Route:** SKIN APPLICATION

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Diisopropylcarbodiimide

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

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 01:04:29

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

**Lab:** MBA

---

**ANIMAL ID:** 37

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 10 MG/ML

**DISP:** Terminal Sacrifice

**HISTO:** MB229G-37

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Kidney

\* Liver

\* Lung

\* Skin

\* Spinal Cord

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 38	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> 10 MG/ML	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB229G-38

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

---

**OBSERVATIONS**

Ovary		Cyst	Moderate
Note: CYST NOT APPARENT IN SECOND OVARY. TGL 2-NCL [ Cyst TGLS = 1-5 ]			
* Skin	SOA	Hyperkeratosis	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 39	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> 10 MG/ML	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB229G-39

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

---

**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 40	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> 10 MG/ML	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB229G-40

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

---

**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 41	<b>TRT#:</b> 9	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> 30 MG/ML	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB229G-41

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

---

**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 42	<b>TRT#:</b> 9	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> 30 MG/ML	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB229G-42

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

---

**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 43	<b>TRT#:</b> 9	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> 30 MG/ML	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB229G-43

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

---

**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
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---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 44	<b>TRT#:</b> 9	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> 30 MG/ML	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB229G-44

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

---

**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 45	<b>TRT#:</b> 9	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> 30 MG/ML	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB229G-45

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

---

**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 46	<b>TRT#:</b> 10	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 5
	<b>DOSE:</b> 90 MG/ML	<b>DISP:</b> Natural Death	<b>HISTO:</b> MB229G-46

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Brain	Intestine Small, Duodenum	* Kidney	* Liver
* Lung	* Spinal Cord		

---

**OBSERVATIONS**

Int Sm Duoden  
Note: TGL 1-NCL

* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild

Note: SKIN PAINT: NO APPARENT CAUSE FOR REDNESS. TGL 2-NCL

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 47	<b>TRT#:</b> 10	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 5
	<b>DOSE:</b> 90 MG/ML	<b>DISP:</b> Natural Death	<b>HISTO:</b> MB229G-47

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Brain	Intestine Large, Colon	* Kidney	* Liver
* Lung	* Spinal Cord		

---

**OBSERVATIONS**

Int Lg Colon Note: NO FLUID SEEN AT TRIM. TGL 1-NST			
* Lung Note: AGONAL OR PM CONGESTION PRESENT. TGL 2-NCL			
* Skin Note: SKIN PAINT: NO APPARENT CAUSE FOR REDNESS. TGL 3-NCL	Epidermis, SOA	Hyperplasia	Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 48	<b>TRT#:</b> 10	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 5
	<b>DOSE:</b> 90 MG/ML	<b>DISP:</b> Natural Death	<b>HISTO:</b> MB229G-48

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

---

**OBSERVATIONS**

* Lung	Note: CONGESTION IS AGONAL OR POST MORTEM. TGL 2-NCL		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild

---

PRIMARY CAUSE OF DEATH

-

Animal Note: TRACHEA- FLUID, WHITE TGL 3-NST

Animal Note: CAVITY- THORACIC, FLUID TGL 1-NST

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 49	<b>TRT#:</b> 10	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 5
	<b>DOSE:</b> 90 MG/ML	<b>DISP:</b> Natural Death	<b>HISTO:</b> MB229G-49

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

---

**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:04:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 50	<b>TRT#:</b> 10	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 5
	<b>DOSE:</b> 90 MG/ML	<b>DISP:</b> Natural Death	<b>HISTO:</b> MB229G-50

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Liver	* Lung
* Spinal Cord			

---

**OBSERVATIONS**

* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild

---

Note: SKIN PAINT: NO APPARENT CAUSE FOR REDNESS. TGL 1-NCL

---

PRIMARY CAUSE OF DEATH

-

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**\*\* END OF REPORT \*\***