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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Diisopropylcarbodiimide
CAS Number: 693-13-0

Date Report Requested: 10/16/2014
Time Report Requested: 01:06:05
First Dose M/F: NA / NA
Lab: MBA

C Number: C93020
Lock Date: 05/16/1995
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: NONE
Experiment Number: 93020-01
Test Type: 14-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Diisopropylcarbodiimide
CAS Number: 693-13-0

Date Report Requested: 10/16/2014
Time Report Requested: 01:06:05
First Dose M/F: NA / NA
Lab: MBA

F 344/N Rat Male
VEHICLE CONTROL

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*TOTALS

**Alimentary System**

Liver

| Centrilobular, Vacuolization Cytoplasmic | + | + | + | + | 5 |

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

Skin

| + | + | + | + | 5 |

**Musculoskeletal System**

NONE

**Nervous System**


* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
M ..Missing tissue
X ..Lesion present
A ..Autolysis precludes evaluation
I ..Insufficient tissue
BLANK ..Not examined microscopically
1-4 ..Lesion qualified as:
1) Minimal 2) Mild 3) Moderate 4) Marked
Experiment Number: 93020-01
Test Type: 14-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

Test Compound: Diisopropylcarbodimide
CAS Number: 693-13-0

Date Report Requested: 10/16/2014
Time Report Requested: 01:06:05
First Dose M/F: NA / NA
Lab: MBA

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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F 344/N Rat Male
VEHICLE CONTROL

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<th>Respiratory System</th>
<th>Lung</th>
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<tr>
<td>Special Senses System</td>
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<td>Urinary System</td>
<td>Kidney</td>
<td>+ + + + + 5</td>
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* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
M ..Missing tissue
X ..Lesion present
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BLANK ..Not examined microscopically
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### P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

---

**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N  
**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:06:05  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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#### DAY ON TEST

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* **TOTALS**

#### Alimentary System

- **Liver**
  - Centrilobular, Vacuolization Cytoplasmic: $+ + + + +$ 5

- **Cardiovascular System**
  - NONE

- **Endocrine System**
  - NONE

- **General Body System**
  - NONE

- **Genital System**
  - NONE

- **Hematopoietic System**
  - NONE

- **Integumentary System**
  - **Skin**
    - SOA, Hyperkeratosis: $+ + + + +$ 5
  - Musculoskeletal System: NONE

---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ ..Tissue examined microscopically  
M ..Missing tissue  
X ..Lesion present  
A ..Autolysis precludes evaluation  
I ..Insufficient tissue  
BLANK ..Not examined microscopically  
1-4 ..Lesion qualified as:
  1) Minimal  
  2) Mild  
  3) Moderate  
  4) Marked
F 344/N Rat Male
10 MG/ML

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*TOTALS*

**Nervous System**
- Brain: + + + + + 5
- Spinal Cord: + + + + + 5

**Respiratory System**
- Lung: + + + + + 5

**Special Senses System**
- NONE

**Urinary System**
- Kidney: + + + + + 5

---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
M ..Missing tissue
1-4 ..Lesion qualified as:
1) Minimal  2) Mild
3) Moderate  4) Marked
Experiment Number: 93020-01
Test Type: 14-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N
Test Compound: Diisopropylcarbodiimide
CAS Number: 693-13-0

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/16/2014
Time Report Requested: 01:06:05
First Dose M/F: NA / NA
Lab: MBA

**F 344/N Rat Male**
**30 MG/ML**

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**Alimentary System**

Liver

Centrilobular, Vacuolization Cytoplasmic 1 1 1.0

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

Skin

Epidermis, SOA, Hyperplasia 2 1 1 1 1 5 1.2
SOA, Hyperkeratosis 2 2 1 1 2 5 1.6
Skin, Control + 1
Epidermis, Hyperplasia 1 1 1 0

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
M ..Missing tissue
A ..Autolysis precludes evaluation
I ..Insufficient tissue
BLANK ..Not examined microscopically
1-4 ..Lesion qualified as:
1) Minimal
2) Mild
3) Moderate
4) Marked
**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N  
**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0  
**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:06:05  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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| ANIMAL ID | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 2 | 3 | 4 | 5 |

**Musculoskeletal System**  
NONE

**Nervous System**  
Brain + + + + + 5  
Spinal Cord + + + + + 5

**Respiratory System**  
Lung + + + + + 5

**Special Senses System**  
NONE

**Urinary System**  
Kidney + + + + + 5

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ ..Tissue examined microscopically  
M ..Missing tissue  
X ..Lesion present  
A ..Autolysis precludes evaluation  
1-4 ..Lesion qualified as:  
1) Minimal  
2) Mild  
3) Moderate  
4) Marked  
I ..Insufficient tissue  
BLANK ..Not examined microscopically

Page 7
**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0  
**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N  
**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:06:05  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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**ANIMAL ID**

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**TOTALS**

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* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ ..Tissue examined microscopically  
- ..Missing tissue  
X ..Lesion present  
A ..Autolysis precludes evaluation  
1-4 ..Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked  
I ..Insufficient tissue  
BLANK ..Not examined microscopically
**F 344/N Rat Male**

90 MG/ML

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**ANIMAL ID**

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| 6 7 8 9 0 |

**SOA, Inflammation, Acute**

|          | 1 | 2 | 1 | 3 | 1.3 |

| Skin, Control | +  |
| Epidermis, Hyperplasia | 1 | 1 | 2 | 1.0 |

**Musculoskeletal System**

NONE

**Nervous System**

- Brain  
  +  +  +  +  +  5
- Spinal Cord  
  +  +  +  +  +  5

**Respiratory System**

- Lung  
  +  +  +  +  +  5

**Special Senses System**

NONE

**Urinary System**

- Kidney  
  +  +  +  +  +  5

---

*..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+..Tissue examined microscopically
M..Missing tissue
1..Lesion qualified as:
  1) Minimal
  2) Mild
  3) Moderate
  4) Marked

Page 9
F 344/N Rat Male
269     MG/ML

ANIMAL ID

*TOTALS

Alimentary System
  NONE
Cardiovascular System
  NONE
Endocrine System
  NONE
General Body System
  NONE
Genital System
  NONE
Hematopoietic System
  NONE
Integumentary System
  NONE
Musculoskeletal System
  NONE
Nervous System
  NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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1-4 ..Lesion qualified as:
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  2) Mild
  3) Moderate
  4) Marked
Experiment Number: 93020-01
Test Type: 14-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

Date Report Requested: 10/16/2014
Time Report Requested: 01:06:05
First Dose M/F: NA / NA
Lab: MBA

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Diisopropylcarbodiimide
CAS Number: 693-13-0

DAYS ON TEST
F 344/N Rat Male
269 MG/ML

ANIMAL ID

Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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X ..Lesion present
A ..Autolysis precludes evaluation
I ..Insufficient tissue
BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:
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2) Mild     4) Marked
P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Diisopropylcarbodiimide
CAS Number: 693-13-0

DAY ON TEST

F 344/N Rat Male
806     MG/ML

ANIMAL ID

*TOTALS

Alimentary System
NONE

Cardiovascular System
NONE

Endocrine System
NONE

General Body System
NONE

Genital System
NONE

Hematopoietic System
NONE

Integumentary System
NONE

Musculoskeletal System
NONE

Nervous System
NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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M ..Missing tissue
X ..Lesion present
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1-4 ..Lesion qualified as:
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3) Moderate
4) Marked
Experiment Number: 93020-01
Test Type: 14-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Diisopropylcarbodiimide
CAS Number: 693-13-0

Date Report Requested: 10/16/2014
Time Report Requested: 01:06:05
First Dose M/F: NA / NA
Lab: MBA

DAY ON TEST
F 344/N Rat Male
806 MG/ML

ANIMAL ID

*TOTALS

Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE

***END OF MALE DATA***

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:
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2) Mild  4) Marked
Experiment Number: 93020-01
Test Type: 14-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Diisopropylcarbodiimide
CAS Number: 693-13-0

Date Report Requested: 10/16/2014
Time Report Requested: 01:06:05
First Dose M/F: NA / NA
Lab: MBA

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ALIMENTARY SYSTEM
Liver                                                                 + + + + + 5

CARDIOVASCULAR SYSTEM
NONE

ENDOCRINE SYSTEM
NONE

GENERAL BODY SYSTEM
NONE

GENERAL SYSTEM
NONE

HEMATOPOIETIC SYSTEM
NONE

INTEGUMENTARY SYSTEM
Skin                                                                 + + + + + 5
SOA, Hyperkeratosis                                                1 1 1.0

MUSCULOSKELETAL SYSTEM
NONE

NERVOUS SYSTEM

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically                                  M ..Missing tissue
X ..Lesion present                                                   A ..Autolysis precludes evaluation
I ..Insufficient tissue                                              BLANK ..Not examined microscopically
1-4 ..Lesion qualified as:                                           1) Minimal  3) Moderate
   1) Minimal  2) Mild  3) Moderate  4) Marked
**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N  

**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0  

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:06:05  
**First Dose M/F:** NA / NA  
**Lab:** MBA

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

### F 344/N Rat Female  
**VEHICLE CONTROL**

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**TOTALS**

- **Brain**: + + + + + 5
- **Spinal Cord**: + + + + + 5
- **Respiratory System**: + + + + + 5
- **Special Senses System**: **NONE**
- **Urinary System**: + + + + + 5

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically  
M ..Missing tissue  
1-4 ..Lesion qualified as:  
A ..Autolysis precludes evaluation  
1) Minimal 3) Moderate  
I ..Insufficient tissue  
BLANK ..Not examined microscopically  
2) Mild 4) Marked
**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
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**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

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

---

**F 344/N Rat Female**  
**10 MG/ML**

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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

**Alimentary System**

- Liver: + + + + + 5

**Cardiovascular System**

- NONE

**Endocrine System**

- NONE

**General Body System**

- NONE

**Genital System**

- Ovary: + 1
- Cyst: 3 1 3.0

**Hematopoietic System**

- NONE

**Integumentary System**

- Skin: + + + + + 5
  - Epidermis, SOA, Hyperplasia: 1 1 1 1 1.0
  - SOA, Hyperkeratosis: 4 1.0

**Musculoskeletal System**

---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ ..Tissue examined microscopically  
M ..Missing tissue  
1-4 ..Lesion qualified as:  
1) Minimal  3) Moderate  
2) Mild  4) Marked

---

*BLANK ..Not examined microscopically*
Experiment Number: 93020-01
Test Type: 14-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

Test Compound: Diisopropylcarbodiimide
CAS Number: 693-13-0

Date Report Requested: 10/16/2014
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First Dose M/F: NA / NA
Lab: MBA

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

F 344/N Rat Female
10 MG/ML

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*TOTALS

Nervous System

| Brain   | + | + | + | + | + | 5 |
| Spinal Cord | + | + | + | + | + | 5 |

Respiratory System

| Lung | + | + | + | + | + | 5 |

Special Senses System

| NONE |

Urinary System

| Kidney | + | + | + | + | + | 5 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
M ..Missing tissue
1-4 ..Lesion qualified as:
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A ..Autolysis precludes evaluation
I ..Insufficient tissue
BLANK ..Not examined microscopically
Experiment Number: 93020-01  
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Test Compound: Diisopropylcarbodiimide  
CAS Number: 693-13-0  
Date Report Requested: 10/16/2014  
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First Dose M/F: NA / NA  
Lab: MBA

### P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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*TOTALS*

#### Alimentary System

- Liver: + + + + + 5

#### Cardiovascular System

NONE

#### Endocrine System

NONE

#### General Body System

NONE

#### Genital System

NONE

#### Hematopoietic System

NONE

#### Integumentary System

- Skin: + + + + + 5

  - Epidermis, SOA, Hyperplasia: 1 1 2 1.0
  - SOA, Hyperkeratosis: 1 1 1 1 5 1.0

#### Musculoskeletal System

NONE

---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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First Dose M/F: NA / NA
Lab: MBA

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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F 344/N Rat Female
30 MG/ML

Nervous System

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Respiratory System

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Special Senses System

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Urinary System

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* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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M ..Missing tissue
X ..Lesion present
A ..Autolysis precludes evaluation
I ..Insufficient tissue
BLANK ..Not examined microscopically
1-4 ..Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked
Experiment Number: 93020-01
Test Type: 14-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

Test Compound: Diisopropylcarbodiimide
CAS Number: 693-13-0

Date Report Requested: 10/16/2014
Time Report Requested: 01:06:05
First Dose M/F: NA / NA
Lab: MBA

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

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*TOTALS

**Alimentary System**
- Intestine Large, Colon: +
- Intestine Small, Duodenum: +
- Liver: + + + + +

**Cardiovascular System**
NONE

**Endocrine System**
NONE

**General Body System**
NONE

**Genital System**
NONE

**Hematopoietic System**
NONE

**Integumentary System**
- Skin: + + + + +
- Epidermis, SOA, Hyperplasia: 2 2 2 1 2 5 1.8
- SOA, Hyperkeratosis: 1 1 1 1 4 1.0

*..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

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**F 344/N Rat Female**  
**90 MG/ML**

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*TOTALS*

**Musculoskeletal System**

NONE

**Nervous System**

- Brain  
  +  +  +  +  +  5
- Spinal Cord  
  +  +  +  +  +  5

**Respiratory System**

- Lung  
  +  +  +  +  +  5

**Special Senses System**

NONE

**Urinary System**

- Kidney  
  +  +  +  +  +  5

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+ ..Tissue examined microscopically  
M ..Missing tissue  
1-4 ..Lesion qualified as:

X ..Lesion present  
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1) Minimal  3) Moderate

I ..Insufficient tissue  
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2) Mild  4) Marked
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Species/Strain: Rat/F 344/N

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First Dose M/F: NA / NA  
Lab: MBA

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0

---

**DAY ON TEST**

**F 344/N Rat Female**  
269  MG/ML

**ANIMAL ID**

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Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**
Test Compound: Diisopropylcarbodiimide
CAS Number: 693-13-0

Date Report Requested: 10/16/2014
Time Report Requested: 01:06:05
First Dose M/F: NA / NA
Lab: MBA

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### DAY ON TEST

**F 344/N Rat Female**

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*..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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X..Lesion present
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I..Insufficient tissue
BLANK..Not examined microscopically

1-4..Lesion qualified as:
1) Minimal
2) Mild
3) Moderate
4) Marked

---

Page 23
**Experiment Number:** 93020-01  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N  

---

### P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

**Test Compound:** Diisopropylcarbodiimide  
**CAS Number:** 693-13-0  

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 01:06:05  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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### DAY ON TEST

**F 344/N Rat Female**  
**806 MG/ML**

<table>
<thead>
<tr>
<th>ANIMAL ID</th>
<th>*TOTALS</th>
</tr>
</thead>
</table>

#### *Alimentary System*
- NONE

#### *Cardiovascular System*
- NONE

#### *Endocrine System*
- NONE

#### *General Body System*
- NONE

#### *Genital System*
- NONE

#### *Hematopoietic System*
- NONE

#### *Integumentary System*
- NONE

#### *Musculoskeletal System*
- NONE

#### *Nervous System*
- NONE

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*..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+..Tissue examined microscopically
X..Lesion present
I..Insufficient tissue
BLANK..Not examined microscopically

1-4..Lesion qualified as:
1) Minimal  3) Moderate
2) Mild  4) Marked
Experiment Number: 93020-01
Test Type: 14-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

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** END OF REPORT **