

Revision Date 11-Apr-2007

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product code** DA7180  
**Product name** Slash  
**Recommended Use** Cleaner

**Supplier** Drummond American Corporation  
 600 Corporate Woods Parkway  
 Vernon Hills, IL 60061  
 (847) 913-9313

**Emergency telephone number** (888) 426-4851

**2. HAZARDS IDENTIFICATION**

**Emergency Overview**

Irritant. May be harmful if swallowed.

**Color** Colorless

**Odor** Citric

**Form** Aerosol

**Aggravated Medical Conditions** None Known

**Principal Routes of Exposure** Skin contact. Skin absorption. Inhalation. Ingestion. Eyes.

**Potential health effects**

**Eyes** Slight irritation.

**Skin** Direct contact may cause the following effects. Skin Irritation. Dermatitis. May be absorbed through the skin in harmful amounts.

**Inhalation** May cause irritation of respiratory tract. Shortness of breath. Dizziness. Light headedness. Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.

**Ingestion** May cause chemical pneumonitis if aspirated into lungs. Harmful if swallowed.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name                    | CAS-No     | Weight % |
|----------------------------------|------------|----------|
| 2-Butoxyethanol                  | 111-76-2   | 10-30    |
| L.P.G. (liquified petroleum gas) | 68476-85-7 | 10-30    |
| Isopropyl alcohol                | 67-63-0    | 7-13     |
| D-Limonene                       | 5989-27-5  | 3-7      |

**4. FIRST AID MEASURES**

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|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention.  |
| <b>Skin contact</b> | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Wash contaminated clothing before re-use.   |
| <b>Ingestion</b>    | If a large quantity of liquid is swallowed, do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Seek medical attention. |
| <b>Inhalation</b>   | Remove to fresh air. Provide oxygen if breathing is difficult. If not breathing, give artificial respiration. Keep warm and quiet. Seek medical attention.                        |

## 5. FIRE FIGHTING MEASURES

|                                       |                          |
|---------------------------------------|--------------------------|
| <b>Flash point °C</b>                 | -104                     |
| <b>Flash point °F</b>                 | -156                     |
| <b>Method</b>                         | No information available |
| <b>Autoignition temperature °C</b>    | No data available        |
| <b>Autoignition temperature °F</b>    | No data available        |
| <b>Flammability Limits (% in Air)</b> |                          |
| <b>Upper</b>                          | 12.1%                    |
| <b>Lower</b>                          | 1.8%                     |

### Specific Information for Aerosol Products

|                        |            |
|------------------------|------------|
| <b>Flame extension</b> | >18 inches |
| <b>Flashback</b>       | None       |

### **Suitable extinguishing media**

Alcohol foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam. Water fog.

### **Extinguishing media which must NOT be used for safety reasons**

Do not use a solid water stream as it may scatter and spread fire .

### **Special protective equipment for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### **Fire and Explosion Hazards**

Evacuate area of unprotected and unnecessary personnel. Material is highly volatile and readily gives off vapors. Vapors are heavier than air and may travel along the ground to an ignition source distant from material handling area. Possible ignition sources include pilot lights, flames, lighted cigarettes, heating elements, electric motors, sparks from electrical switches. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat .

### **Sensitivity to shock**

No information available.

### **Sensitivity to static discharge**

No information available.

## 6. ACCIDENTAL RELEASE MEASURES

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### Methods for cleaning up

Evacuate area of unprotected and unnecessary personnel. Ventilate area to maintain exposure below permissible exposure limits. Soak up with inert absorbent material. Dike or dam large spills. Dispose of absorbent in accordance with local, state and federal regulations.

## 7. HANDLING AND STORAGE

### Handling

Keep container closed when not in use. Empty containers are very hazardous . Handle empty containers as if they were full. Do not weld flame cut, or heat empty containers. Do not smoke while using.

### Storage

Keep container tightly closed. Keep away from direct sunlight. Keep away from open flames, hot surfaces and sources of ignition. Store in temperatures below 120 degrees F.

### NFPA Storage Code

Store as Level 1 Aerosol (NFPA 30B)

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

| Chemical Name                    | OSHA PEL (TWA)                     | OSHA PEL (Ceiling) | ACGIH OEL (TWA) | ACGIH OEL (STEL) |
|----------------------------------|------------------------------------|--------------------|-----------------|------------------|
| 2-Butoxyethanol                  | 240 mg/m <sup>3</sup><br>50 ppm    | -                  | 20 ppm          | -                |
| L.P.G. (liquified petroleum gas) | 1000 ppm<br>1800 mg/m <sup>3</sup> | -                  | 1000 ppm        | 2500 ppm         |
| Isopropyl alcohol                | 400 ppm<br>980 mg/m <sup>3</sup>   | -                  | 200 ppm         | 400 ppm          |
| D-Limonene                       | -                                  | -                  | -               | -                |

### Ventilation and Environmental Controls

Sufficient ventilation in volume and in pattern, should be provided to keep air contamination below current applicable OSHA PEL or ACGIH OEL limits.

### Hygiene measures

Wash hands before eating or using the washroom.

### Personal protective equipment

#### Respiratory protection

If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended.

#### Hand Protection

Gloves are recommended to prevent prolonged or repeated contact. Polyethylene Gloves. Polyvinyl alcohol gloves.

#### Eye protection

ANSI approved safety glasses or splash goggles with face shield are recommended.

#### Skin and body protection

None necessary under normal conditions

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                               |                   |  |                          |
|-------------------------------|-------------------|--|--------------------------|
| <b>Form</b>                   | Aerosol           | <b>Color</b>                                   | Colorless                |
| <b>Odor</b>                   | Citric            | <b>Odor Threshold</b>                          | No information available |
| <b>pH</b>                     | 10.15             | <b>Specific Gravity</b>                        | 0.8954                   |
| <b>Vapor pressure</b>         | No data available | <b>Vapor density</b>                           | >1 (Air = 1)             |
| <b>Evaporation Rate</b>       | < 1 (ether = 1)   | <b>VOC Content</b>                             | 35.29%; 315.677 g/l      |
| <b>Water solubility</b>       | Soluble in water  | <b>Partition Coefficient (n-octanol/water)</b> | No data available        |
|                               |                   | <b>Boiling point/range °C</b>                  | -42                      |
| <b>Boiling point/range °F</b> | -43.7             | <b>Melting point/range °C</b>                  | No data available        |
| <b>Melting point/range °F</b> | No data available | <b>Flash point °C</b>                          | -104                     |
| <b>Flash point °F</b>         | -156              |  |                          |

## 10. STABILITY AND REACTIVITY

### Stability

Stable under normal conditions.

### Conditions to avoid

Contact with ignition sources, hot-glowing surfaces, electrical arcs, sparks, and open flame.

### Incompatibility

Strong oxidizing agents. Strong alkalis . Strong mineral acids.

### Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide. Trace phosgene gas.

### Polymerization

Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Component Information

| Chemical Name   | LD50 (oral, rat) | LD50 (dermal, rat/rabbit)  | LC50 (inhalation, rat) |
|---|------------------|----------------------------|------------------------|
| <i>2-Butoxyethanol</i><br>111-76-2                    | 470 mg/kg        | 220 mg/kg<br>2270 mg/kg    | 2.21 mg/L<br>450 ppm   |
| <i>L.P.G. (liquified petroleum gas)</i><br>68476-85-7 | -                | -                          | -                      |
| <i>Isopropyl alcohol</i><br>67-63-0                   | 4396 mg/kg       | 12800 mg/kg<br>12800 mg/kg | 72.6 mg/L              |
| <i>D-Limonene</i><br>5989-27-5                        | 4400 mg/kg       | 2000 mg/kg                 | -                      |

### Synergistic Products

None known

**Potential health effects****Sensitization**

None known

**Mutagenic effects**

None known

**Reproductive toxicity**

None known

**Chronic toxicity**

See Section 2 .

**Teratogenic effects**

None known

**Target Organ Effects**

Prolonged skin contact with 2-butoxyethanol may result in the absorption of potentially harmful amounts leading to possible liver and kidney damage.

**Carcinogenic effects**

See Table Below.

| Chemical Name                    | ACGIH OEL - Carcinogens | IARC       | NTP - Known Carcinogens | NTP - Suspected Human Carcinogens | OSHA RTK Carcinogens |
|----------------------------------|-------------------------|------------|-------------------------|-----------------------------------|----------------------|
| 2-Butoxyethanol                  | Listed                  | Not Listed | Not Listed              | Not Listed                        | Not Listed           |
| L.P.G. (liquified petroleum gas) | Not Listed              | Not Listed | Not Listed              | Not Listed                        | Not Listed           |
| Isopropyl alcohol                | Listed                  | Not Listed | Not Listed              | Not Listed                        | Listed               |
| D-Limonene                       | Not Listed              | Not Listed | Not Listed              | Not Listed                        | Not Listed           |

**Specific Hazards**

2-Butoxyethanol may cause corneal injury and blood abnormalities, may be absorbed through the skin with toxic effects, and may cause damage to spleen and testes.

## 12. ECOLOGICAL INFORMATION

2-Butoxyethanol

**Water Flea Data***water flea LC50=1720 mg/L (24 h)*

Isopropyl alcohol

**Microtox Data***Photobacterium phosphoreum EC50=35390 mg/L (5 min)*

## 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products**

Dispose of all product, residues and clean-up materials in accordance with local, state, and federal regulations.

## 14. TRANSPORT INFORMATION

**DOT**

UN1950 Aerosols, flammable (Petroleum gases, liquified), Class 2.1

*Exception:* (Compressed Gas not more than 1.0L) Consumer Commodity ORM-D

## 14. TRANSPORT INFORMATION

**TDG**

UN1950 AEROSOLS, flammable (Petroleum gases, liquified), Class 2.1 (Consumer Commodity, ORM-D)

**IMDG/IMO**

UN1950 AEROSOLS, flammable (Petroleum gases, liquified), Class 2.1

**IATA**

UN1950 Aerosols, flammable (Petroleum gases, liquified), Class 2.1

**MEX**

UN1950 AEROSOLES (Gases licuados de petroleo), 2.1

## 15. REGULATORY INFORMATION

| Chemical Name     | US EPA SARA 313 Emission Reporting |
|-------------------|------------------------------------|
| 2-Butoxyethanol   | Listed                             |
| Isopropyl alcohol | Listed                             |

| Chemical Name                    | New Jersey - RTK | Pennsylvania - RTK | California Prop. 65 |
|----------------------------------|------------------|--------------------|---------------------|
| 2-Butoxyethanol                  | Listed           | Listed             | Not Listed          |
| L.P.G. (liquified petroleum gas) | Listed           | Listed             | Not Listed          |
| Isopropyl alcohol                | Listed           | Listed<br>Listed   | Not Listed          |
| D-Limonene                       | Not Listed       | Not Listed         | Not Listed          |

| Chemical Name                    | EINECS | DSL | NDSL | TSCA |
|----------------------------------|--------|-----|------|------|
| 2-Butoxyethanol                  | X      | X   | -    | X    |
| L.P.G. (liquified petroleum gas) | X      | X   | -    | X    |
| Isopropyl alcohol                | X      | X   | -    | X    |
| D-Limonene                       | X      | X   | -    | X    |

**CPRC**

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

**16. OTHER INFORMATION**

| <b>NFPA</b>         |   | <b>HMIS</b>            |   |
|---------------------|---|------------------------|---|
| <b>Health</b>       | - | <b>Health</b>          | 3 |
| <b>Flammability</b> | - | <b>Flammability</b>    | 4 |
| <b>Reactivity</b>   | - | <b>Physical Hazard</b> | 1 |

**Prepared By**

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The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.