

Material Safety Data Sheet

Revision Date 01-Oct-2013

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code DA7180
Product name Slash
Recommended Use Cleaner

Supplier Drummond, A Lawson Brand
Lawson Products, Inc.
8770 W.Bryn Mawr Ave.- Suite 900
Chicago, IL 60631
1-866-529-7664

Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview

Flammable. Contents under pressure. Irritating to eyes.

Aggravated Medical Conditions

None Known

Principal Routes of Exposure

Eyes. Skin contact. Inhalation. Ingestion.

Potential health effects

- Eyes** Contact with eyes may cause irritation.
- Skin** May be absorbed through the skin in harmful amounts. Repeated or prolonged exposure may cause: Defatting. Exposure can dry the skin. Dermatitis. Skin Irritation.
- Inhalation** Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal. Prolonged inhalation may be harmful. Prolonged overexposure may cause. Central nervous system damage. Lung damage. Possible unconsciousness. Narcosis. Loss of coordination. Weakness. Fatigue. Confusion. Blurred vision. Chest discomfort. Coughing.
- Ingestion** Not likely to occur.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Isopropyl alcohol	67-63-0	5-8
Propane	74-98-6	5-8
Butane	106-97-8	3-5
2-Butoxyethanol	111-76-2	3-5
D-Limonene	5989-27-5	1-3

4. FIRST AID MEASURES

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If easy to do, remove contact lenses. Continue rinsing. Call a physician immediately.

Skin contact Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Call a physician immediately.

Ingestion Never give anything by mouth to an unconscious person. Do Not induce vomiting. Keep head below hips if vomiting occurs to reduce risk of aspiration. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Seek medical attention immediately.

Inhalation Remove to fresh air. Oxygen or artificial respiration if needed. The rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Seek medical attention immediately.

Notes to physician Symptoms may be delayed.

5. FIRE FIGHTING MEASURES

Flash point °C -104.4
Flash point °F -156
Method No information available

Autoignition temperature °C No data available
Autoignition temperature °F No data available

Flammability Limits (% in Air)
Upper No data available
Lower No data available

Suitable extinguishing media

Use extinguishing media appropriate to surrounding 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

Avoid breathing of vapors. Evacuate area of unprotected and unnecessary personnel. Runoff to sewer may cause fire or explosion hazard. 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**Methods for cleaning up**

Stop leak if you can without risk . Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk.. Absorb with vermiculite . Collect and contain for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE**Handling**

Pressurized container: Do not pierce or burn, even after use.. Do not smoke while using. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not re-use empty containers.. Avoid prolonged or repeated contact with skin.

Storage

Contents under pressure.. The pressure in sealed containers can increase under the influence of heat. . Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct sunlight. Keep tightly closed in a dry and cool place. Keep out of the reach of children.

NFPA Storage Code

Store as Level 2 Aerosol (NFPA 30B)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Isopropyl alcohol	400 ppm 980 mg/m ³	-	200 ppm	400 ppm
Propane	1000 ppm 1800 mg/m ³	-	1000 ppm	-
Butane	800 ppm	-	-	1000 ppm
2-Butoxyethanol	50 ppm 240 mg/m ³	-	20 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. Remove and wash contaminated clothing before re-use.

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. Chemical resistant gloves. Consult glove manufacturer to determine the proper type for a specific operation.

Eye protection

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

Skin and body protection

None necessary under normal conditions

Other Protective Equipment

An eye wash station should be available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Aerosol
Color	Colorless
Odor	Citric
Odor Threshold	No information available
pH	No data available
Specific Gravity	0.9204
Vapor pressure	1.16 psig @ 70F
Vapor density	>1 (Air = 1)
Evaporation Rate	< 1 (ether = 1)
Water solubility	Soluble in water
VOC Content	35.3%
Partition Coefficient (n-octanol/water)	No data available
Boiling point/range °C	No data available
Boiling point/range °F	No data available
Melting point/range °C	No data available
Melting point/range °F	No data available
Flash point °C	-104.4
Flash point °F	-156

10. STABILITY AND REACTIVITY**Stability**

Risk of ignition.

Conditions to avoid

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

Incompatibility

No information available

Hazardous Decomposition Products

No information available

Polymerization

Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
Isopropyl alcohol 67-63-0	4396 mg/kg	12800 mg/kg	16000 ppm
Propane 74-98-6	-	-	658 mg/L
Butane 106-97-8	-	-	658 g/m ³
2-Butoxyethanol 111-76-2	470 mg/kg	220 mg/kg	450 ppm
D-Limonene 5989-27-5	-	5 g/kg	-

Synergistic Products

None known

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.

Potential health effects**Sensitization**

None known

Chronic toxicity

See Section 2.

Mutagenic effects

None known

Teratogenic effects

None known

Reproductive toxicity

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
Isopropyl alcohol	A4	Not Listed	Not Listed	Not Listed	Not Listed
Propane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Butane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
2-Butoxyethanol	A3	Not Listed	Not Listed	Not Listed	Not Listed

D-Limonene | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed

12. ECOLOGICAL INFORMATION**Isopropyl alcohol****Microtox Data***Photobacterium phosphoreum* EC50=35390 mg/L (5 min)**Water Flea Data***Daphnia magna* EC50=13299 mg/L (48 h)**2-Butoxyethanol****Water Flea Data***Daphnia magna* EC50 1698 - 1940 mg/L (24 h)*Daphnia magna* EC50 > 1000 mg/L (48 h)**Ecotoxicity effects** Contains a substance which causes risk of hazardous effects to the environment**13. DISPOSAL CONSIDERATIONS****Disposal Information**

Full or partially full containers are considered hazardous waste. Dispose in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION**DOT**

UN1950 Aerosols, flammable, 2.1. Consumer commodity, ORM-D.

TDG

UN1950 AEROSOLS, flammable, 2.1 Consumer commodity, ORM-D.

15. REGULATORY INFORMATION

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

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Isopropyl alcohol	Listed	Listed	Not Listed
Propane	Listed	Listed	Not Listed
Butane	Listed	Listed	Not Listed
2-Butoxyethanol	Listed	Listed	Not Listed
D-Limonene	Not Listed	Not Listed	Not Listed

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
Isopropyl alcohol	X	X	-	X
Propane	X	X	-	X
Butane	X	X	-	X
2-Butoxyethanol	X	X	-	X
D-Limonene	X	X	-	X

Product code **DA7180**

Product name **Slash**

CPR

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

HMIS

Health - 1

Flammability - 3

Physical Hazard - 0

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.