

SAFETY DATA SHEET

DIAMOND FLUSH

Revision Date: May 29, 2015

Supersedes: April 24, 2012

Version: 2.1

Section 1 – Identification of the Substance/Mixture and of the Company/Undertaking

Product Name: Diamond Flush

Part Number: 400UFS

Product Use: Flush solvent for Flushworks machine

Manufacturer: Cliplight Manufacturing

961 Alness Street

Toronto, ON M3J 2J1, Canada

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Telephone: +1 416 736 9036

Emergency Telephone: +1 613 996 6666 (Canutec)

Section 2 – Hazards Identification

GHS Classification

Flammable liquids: Category 4

Skin irritation: Category 2

Eye irritation: Category 2

GHS Label elements:



Warning

Hazard statements:

H227 Combustible liquid

H315 Causes skin irritation

H319 Causes serious eye irritation

Precautionary statements:

P280 Wear protective gloves and eye protection.

P302 + P352: IF ON SKIN: Wash with soap and plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice.

P337 + P313 If eye irritation persists: Get medical attention.

Section 3 – Composition/Information on Ingredients

Ingredient Name	CAS No.	EC No.	Composition, wt%
Dipropylene glycol methyl ether	34590-94-8	252-104-2	<50
Propylene glycol butyl ether	5131-66-8	225-878-4	<50

Remaining components of this product are not classified as hazardous under the GHS, 29 CFR 1910.1200, WHMIS 2015, or (EC) No 1272/2008.

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Section 4 – First-Aid Measures**Inhalation**

Remove person to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be given by qualified personnel. Obtain medical attention.

Eye Contact

Remove contact lenses and immediately flush eyes with copious amounts of water for at least 15 minutes. Obtain medical attention immediately.

Skin Contact

Immediately wash skin with soap and plenty of water. If irritation persists or if contact has been prolonged, obtain medical attention. Wash contaminated clothing before reuse.

Ingestion

Do NOT induce vomiting. Wash out mouth with water provided person is conscious. Call a physician.

Acute and Delayed Symptoms

None known

Special Treatment Needed

No additional information

Section 5 – Fire-Fighting Measures**Extinguishing media**

In case of fire, use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

In a fire, smoke, soot, carbon monoxide and dioxide will be produced.

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to keep fire-exposed containers cool.

Section 6 – Accidental Release Measures**Personal precautions**

Avoid inhalation of vapour. Wear chemical-resistant gloves and clothing and chemical safety goggles or safety glasses with side shields. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Ensure adequate ventilation. Stop material from entering sewers or bodies of water.

Methods and materials for containment and cleaning up

Spill should be contained, adsorbed on sand, diatomite or vermiculite, and placed in suitable containers for disposal. Larger spills should be collected with an electrically protected vacuum cleaner or by wet-brushing. Ventilate area and wash spill site. Treat or dispose of waste material in accordance with all local, state, provincial, and national requirements.

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Section 7 – Handling and Storage**Precautions for safe handling**

Do not breathe vapour. Avoid contact with eyes, skin or clothing. Keep away from sources of ignition. Take measures to prevent the build-up of electrostatic charge.

Conditions for safe storage

Store in a well-ventilated area. Keep container closed and away from heat and sources of ignition.

Section 8 – Exposure Controls/Personal Protection**Control Parameters**

Component	CAS No.	Value	Control Parameter	Basis
Dipropylene glycol methyl ether	34590-94-8	TWA	50 ppm 308 mg/m ³	EU Directive 2000/39/EC. UK EH40 WEL
		TWA	100 ppm	ACGIH TLV
		STEL	150 ppm	ACGIH TLV

Engineering Controls

Use non-sparking tools. Do not allow product to enter drains.

Protective Equipment

Wear chemical-resistant gloves and chemical safety goggles or safety glasses with side shields and chemical protective clothing.

Hygiene

Wash hands thoroughly after handling.

Section 9 – Physical and Chemical Properties

Appearance	Clear colourless liquid
Odour	Ethereal
Odour threshold	No data available
pH	No data available
Freezing point	< -73°C (-100°F)
Boiling range	71 – 91°C (160 – 196°F)
Flash point	71°C (160°F)
Evaporation rate	No data available
Flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Specific gravity	0.91 – 0.92
Solubility in water	>100%
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

Section 10 – Stability and Reactivity

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Unlikely

Conditions to avoid

Heat, flames and sparks

Incompatible materials

Strong oxidizing agents, strong acids

Hazardous decomposition products

Carbon monoxide/dioxide on combustion

Section 11 – Toxicological Information

The toxicological properties of this product have not been investigated. Some information for components is provided below.

Acute toxicity

Oral LD50 rat: Dipropylene glycol methyl ether - 5152 ppm
 Propylene glycol butyl ether – 5009 ppm

Skin corrosion/irritation

No data available

Serious eye damage/irritation

Rabbit: Dipropylene glycol methyl ether - mild irritation – 24 h

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

None of the components of this product is identified as a carcinogen by IARC, ACGIH, NTP or OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity

No data available

Aspiration hazard

No data available

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Potential Health Effects:**Skin contact:** May be harmful if absorbed through skin. May cause skin irritation.**Eye contact:** Causes serious eye irritation.**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.**Ingestion:** May be harmful if swallowed.**Section 12 – Ecological Information**

No data are available for the ecological effects of this product; some information on components is provided below.

Ecotoxicity

Toxicity to fish: Dipropylene glycol methyl ether
LC50 – 96 h
Species: Pimephales promelas
Result: >10000 mg/l

Toxicity to other organisms: Dipropylene glycol methyl ether
EC50 – 48 h
Species: Daphnia magna
Result: >1919 mg/l

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Section 13 – Product Disposal**Product**

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is flammable. Observe all local, state, provincial and national requirements.

Contaminated packaging

Dispose of as product.

Section 14 – Transport Information**DOT/IMDG/IACO/IATA/TDG**

Shipping Name: ETHERS, N.O.S. (Propylene glycol butyl ether)

UN #: 3271

Class: 3

Packing Group: III

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Section 15 – Regulatory Information

All components of this product are listed in the U.S. Toxic Substances Control Act (TSCA) Inventory.

All components of this product are on the Canadian Domestic Substances List (DSL).

All components of this product are on or in compliance with the Australian Inventory of Chemical Substances (AICS).

A chemical safety assessment has not been carried out for this product.

Section 16 – Other Information**HMIS CLASSIFICATION**

Health Hazard:	1
Flammability:	2
Physical Hazards:	0

Notes to this Revision

This version 2.1 (May 29, 2015) has been updated from the previous version of April 24, 2012 to conform to the requirements of the GHS, OSHA Hazard Communications Standard 2012, WHMIS 2015 and (EU) No 453/2010.

The hazard classification of the product has been changed as has the shipping name and class. However, no substantive changes have been made to the description of the product or to instructions for its safe use, handling and storage.

All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.