

# MATERIAL SAFETY DATA SHEET

DRAFT

## 1. Product and Company Identification

**Product Name** Cutek ProClean  
**CAS #** Mixture  
**Product use** Cleaner  
**Manufacturer** Chemisys International Pty Ltd  
PO Box 3604  
Loganholme, QLD 4129 AUSTRALIA  
Phone: +61 7 3287 7288

## 2. Hazards Identification

**Emergency overview** DANGER  
CAUSES EYE BURNS. CAUSES SKIN BURNS.

**Potential short term health effects**

**Routes of exposure** Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

**Eyes** May cause chemical burns. May cause blindness.

**Skin** May cause chemical burns. May be absorbed through the skin.

**NIOSH - Pocket Guide - Skin Notations**

Ethylene glycol monobutyl ether 111-76-2 Potential for dermal absorption

**Inhalation** May cause respiratory tract irritation.

**Ingestion** Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

**Target organs** Eyes. Respiratory system. Skin.

**Chronic effects** Prolonged or repeated exposure can cause drying, defatting and dermatitis. This product may be harmful if it is absorbed through the skin.

**Signs and symptoms** May cause severe irritation or chemical burns.

**OSHA Regulatory Status** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Potential environmental effects** See section 12.

## 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Oxalic acid	144-62-7	7 - 13
Diethylene glycol monobutyl ether	112-34-5	1 - 5
Ethylene glycol monobutyl ether	111-76-2	1 - 5
Sodium dodecylbenzenesulfonate	68081-81-2	0.5 - 1.5

## 4. First Aid Measures

**First aid procedures**

**Eye contact** Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

**Skin contact** Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Obtain medical attention if irritation persists.

**Inhalation** If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

**Ingestion** Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

**General advice** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

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## 5. Fire Fighting Measures

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<b>Flammable properties</b>	Not flammable by WHMIS/OSHA criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Carbon dioxide. Alcohol foam. Dry chemical.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

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## 6. Accidental Release Measures

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<b>Personal precautions</b>	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
<b>Environmental precautions</b>	Do not discharge into lakes, streams, ponds or public waters.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

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## 7. Handling and Storage

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<b>Handling</b>	Use good industrial hygiene practices in handling this material. Do not get in eyes, on skin or on clothing. Use only with adequate ventilation. Avoid breathing vapors or mists of this product. Keep container tightly closed. Wash thoroughly after handling.
<b>Storage</b>	Keep out of the reach of children. Store in a closed container away from incompatible materials.

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## 8. Exposure Controls / Personal Protection

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### Exposure limits

Ingredient(s)	Exposure Limits
Diethylene glycol monobutyl ether	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Ethylene glycol monobutyl ether	<b>ACGIH-TLV</b> TWA: 20 ppm <b>OSHA-PEL</b> TWA: 50 ppm
Oxalic acid	<b>ACGIH-TLV</b> TWA: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup> <b>OSHA-PEL</b> TWA: 1 mg/m <sup>3</sup>
Sodium dodecylbenzenesulfonate	<b>ACGIH-TLV</b> TWA: 10 mg/m <sup>3</sup> <b>OSHA-PEL</b> Not established

### Engineering controls

General ventilation normally adequate.

### Personal protective equipment

#### Eye / face protection

Wear chemical goggles.

#### Hand protection

Rubber gloves. Confirm with a reputable supplier first.

#### Skin and body protection

As required by employer code.

#### Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

#### General hygiene considerations

Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

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## 9. Physical and Chemical Properties

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Appearance	Not available
Color	Not available
Form	Liquid
Odor	Not available
Odor threshold	Not available
Physical state	Liquid
pH	0.38
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation rate	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available

Specific gravity	Not available
Octanol/water coefficient	Not available
Viscosity	Not available
Percent volatile	Not available

## 10. Stability and Reactivity

<b>Reactivity</b>	Reacts with alkaline material. This product may react with reducing agents.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Bases. Reducing agents.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon.

## 11. Toxicological Information

### Component analysis - LC50

Ingredient(s)	LC50
Diethylene glycol monobutyl ether	Not available
Ethylene glycol monobutyl ether	2.21 mg/l/4h rat
Oxalic acid	Not available
Sodium dodecylbenzenesulfonate	Not available

### Component analysis - Oral LD50

Ingredient(s)	LD50
Diethylene glycol monobutyl ether	2000 mg/kg guinea pig; 3384 mg/kg rat; 2200 mg/kg rabbit
Ethylene glycol monobutyl ether	470 mg/kg rat; 320 mg/kg rabbit
Oxalic acid	375 mg/kg rat
Sodium dodecylbenzenesulfonate	1260 mg/kg rat

### Effects of acute exposure

<b>Eye</b>	May cause chemical burns. May cause blindness.
<b>Skin</b>	May cause chemical burns. May be absorbed through the skin.

#### NIOSH - Pocket Guide - Skin Notations

Ethylene glycol monobutyl ether	111-76-2	Potential for dermal absorption
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**Inhalation** May cause respiratory tract irritation.

**Ingestion** Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

**Sensitization** Non-hazardous by WHMIS/OSHA criteria.

**Chronic effects** Non-hazardous by WHMIS/OSHA criteria.

**Carcinogenicity** Non-hazardous by WHMIS/OSHA criteria.

#### ACGIH - Threshold Limit Values - Carcinogens

Ethylene glycol monobutyl ether	111-76-2	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
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#### IARC - Group 3 (Not Classifiable)

Ethylene glycol monobutyl ether	111-76-2	Monograph 88 [2006]
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**Mutagenicity** Non-hazardous by WHMIS/OSHA criteria.

**Reproductive effects** Non-hazardous by WHMIS/OSHA criteria.

**Teratogenicity** Non-hazardous by WHMIS/OSHA criteria.

**Name of Toxicologically Synergistic Products** Not available

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## 12. Ecological Information

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**Ecotoxicity** Components of this product have been identified as having potential environmental concerns.

**Ecotoxicity - Freshwater Algae - Acute Toxicity Data**

Diethylene glycol monobutyl ether 112-34-5 96 Hr EC50 Desmodesmus subspicatus: >100 mg/L

**Ecotoxicity - Freshwater Fish - Acute Toxicity Data**

Diethylene glycol monobutyl ether 112-34-5 96 Hr LC50 Lepomis macrochirus: 1300 mg/L [static]

Ethylene glycol monobutyl ether 111-76-2 96 Hr LC50 Lepomis macrochirus: 1490 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 2950 mg/L

Oxalic acid 144-62-7 24 Hr LC50 Lepomis macrochirus: 4000 mg/L [static]

**Ecotoxicity - Water Flea - Acute Toxicity Data**

Diethylene glycol monobutyl ether 112-34-5 24 Hr EC50 Daphnia magna: 2850 mg/L; 48 Hr EC50 Daphnia magna: >100 mg/L

Ethylene glycol monobutyl ether 111-76-2 24 Hr EC50 Daphnia magna: 1698 - 1940 mg/L; 48 Hr EC50 Daphnia magna: >1000 mg/L

Oxalic acid 144-62-7 48 Hr EC50 Daphnia magna: 125 - 150 mg/L [Static]

**Persistence / degradability** Not available

**Bioaccumulation / accumulation** Not available

**Mobility in environmental media** Not available

**Environmental effects** Not available

**Aquatic toxicity** Not available

**Partition coefficient** Not available

**Chemical fate information** Not available

**Other adverse effects** Not available

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## 13. Disposal Considerations

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**Disposal instructions** Review federal, state/provincial, and local government requirements prior to disposal.

**Waste from residues / unused products** Not available

**Contaminated packaging** Not available

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## 14. Transport Information

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**U.S. Department of Transportation (DOT)**

**Basic shipping requirements:**

**Proper shipping name** Corrosive liquids, n.o.s. (OXALIC ACID)

**Hazard class** 8

**UN number** UN1760

**Packing group** III

**Additional information:**

**Special provisions** IB3, T7, TP1, TP28

**Packaging exceptions** Limited quantity 5L

**ERG number** 154



## Transportation of Dangerous Goods (TDG - Canada)

### Basic shipping requirements:

Proper shipping name	CORROSIVE LIQUID, N.O.S. (OXALIC ACID)
Hazard class	8
UN number	UN1760
Packing group	III
Additional information:	
Special provisions	16
Packaging exceptions	Limited quantity 5L



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## 15. Regulatory Information

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**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### Canada - CEPA - Schedule I - List of Toxic Substances

Ethylene glycol monobutyl ether	111-76-2	Present
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### Canada - WHMIS - Ingredient Disclosure List

Diethylene glycol monobutyl ether	112-34-5	1 %
Ethylene glycol monobutyl ether	111-76-2	1 %
Oxalic acid	144-62-7	0.1 %

**WHMIS status** Controlled  
**WHMIS classification** Class E - Corrosive Material  
**WHMIS labeling**



### Occupational Safety and Health Administration (OSHA)

**29 CFR 1910.1200 hazardous chemical** Yes

**US Federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### U.S. - CAA (Clean Air Act) - HON Rule - SOCM Chemicals

Diethylene glycol monobutyl ether	112-34-5	Group I
Ethylene glycol monobutyl ether	111-76-2	Group I

### U.S. - CAA (Clean Air Act) - Reactivity Factors for VOCs in Aerosol Coatings

Diethylene glycol monobutyl ether	112-34-5	2.70 G Ozone/g VOC Reactivity Factor
Ethylene glycol monobutyl ether	111-76-2	2.90 G Ozone/g VOC Reactivity Factor

### U.S. - CAA (Clean Air Act) - Volatile Organic Compounds (VOCs) in SOCM

Diethylene glycol monobutyl ether	112-34-5	Present
Ethylene glycol monobutyl ether	111-76-2	Present

### CERCLA (Superfund) reportable quantity

None

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Clean Water Act (CWA)** Not available

**State regulations**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances**

Ethylene glycol monobutyl ether	111-76-2	Present
Oxalic acid	144-62-7	Present

**U.S. - Massachusetts - Right To Know List**

Ethylene glycol monobutyl ether	111-76-2	Present
Oxalic acid	144-62-7	Present

**U.S. - Minnesota - Hazardous Substance List**

Ethylene glycol monobutyl ether	111-76-2	Skin
Oxalic acid	144-62-7	Present

**U.S. - New Jersey - Right to Know Hazardous Substance List**

Ethylene glycol monobutyl ether	111-76-2	sn 0275
Oxalic acid	144-62-7	sn 1445

**U.S. - Pennsylvania - RTK (Right to Know) List**

Ethylene glycol monobutyl ether	111-76-2	Present
Oxalic acid	144-62-7	Present

**U.S. - Rhode Island - Hazardous Substance List**

Ethylene glycol monobutyl ether	111-76-2	Toxic (skin)
Oxalic acid	144-62-7	Toxic; Flammable

**Inventory name**

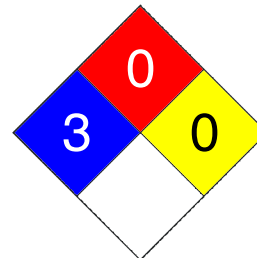
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**16. Other Information**

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 3
Flammability	0
Physical Hazard	0
Personal Protection	X

**Disclaimer**

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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15-Jan-2013

**Expiry date**

15-Jan-2016

**Prepared by**

Dell Tech Laboratories Ltd. (519) 858-5021

**Other information**

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.