



## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

<b>Material name</b>	<b>TERRAGREEN BLUE GLASS CLEANER</b>
<b>Product number</b>	361006 / 193034 / 192014
<b>Revision date</b>	20-Feb-2008
<b>Company information</b>	Brulin & Company, Inc. P.O. Box 270 Indianapolis, IN 46206 US www.Brulin.com
<b>Emergency</b>	CHEMTREC 1-800-424-9300
<b>General information</b>	Phone: 317-923-3211 Fax: 317-925-4596

### 2. Hazards Identification

<b>Emergency overview</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Potential short term health effects</b>	
<b>Eyes</b>	Contact with eyes may cause irritation.
<b>Skin</b>	Health injuries are not known or expected under normal use. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).
<b>Inhalation</b>	Health injuries are not known or expected under normal use. Prolonged or excessive inhalation may cause respiratory tract irritation.
<b>Ingestion</b>	Health injuries are not known or expected under normal use. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Potential environmental effects</b>	This material is not expected to be harmful to aquatic life.

### 3. Composition / Information on Ingredients

Hazardous component(s)	CAS #	Percent
Propylene glycol monomethyl ether	107-98-2	< 2.5

### 4. First Aid Measures

<b>First aid procedures</b>	
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if irritation develops or persists.
<b>Skin contact</b>	Wash off with warm water and soap. Launder contaminated clothing before reuse. Get medical attention if irritation develops or persists.
<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Ingestion</b>	Give several glasses of water. Do not induce vomiting. If ingestion of a large amount does occur, seek medical attention.
<b>General advice</b>	If you feel unwell, seek medical advice (show the label where possible).

### 5. Fire Fighting Measures

<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Dry chemical, CO2, water spray or regular foam.

### 6. Accidental Release Measures

<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so.
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## Methods for cleaning up

Never return spills in original containers for re-use.

Large Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece).

## 7. Handling and Storage

### Handling

Avoid contact with eyes. Handle and open container with care.

### Storage

Keep this material away from food, drink and animal feed. Keep out of the reach of children. Keep at temperatures between 4 and 49°C.

## 8. Exposure Controls / Personal Protection

### Exposure guidelines

#### ACGIH - Threshold Limits Values - Short Term Exposure Limits (TLV-STEL)

Propylene glycol monomethyl ether	107-98-2	150 Ppm STEL
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#### ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Propylene glycol monomethyl ether	107-98-2	100 Ppm TWA
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#### ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

Propylene glycol monomethyl ether	107-98-2	CNS impairment; eye irritation
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### Personal protective equipment

#### Eye / face protection

Avoid contact with eyes. Wear as appropriate: goggles or safety glasses with side-shields

#### Skin protection

Not normally needed. Wear impervious gloves for prolonged contact.

#### Respiratory protection

Under normal conditions, respirator is not normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

### Appearance

clear Liquid.

### Color

dark blue

### Form

Liquid.

### Odor

Clean/fresh fragrance

### Odor threshold

Not available

### pH

7.7

### Freezing point

32 °F estimated

### Boiling point

212 °F

### Flash point

> 212 °F Pensky-Martens Closed Cup

### 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

1.003

### Solubility (H2O)

100 %

### VOC (Weight %)

5.17 %

## 10. Chemical Stability & Reactivity Information

### Chemical stability

Stable at normal conditions.

### Conditions to avoid

Do not freeze.

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<b>Incompatible materials</b>	Incompatible with strong acids and oxidizing agents.
<b>Hazardous decomposition products</b>	Carbon monoxide and carbon dioxide. Sulphur oxides
<b>Possibility of hazardous reactions</b>	Will not occur.

## 11. Toxicological Information

<b>Acute effects</b>	Acute LD50: 91310 mg/kg, Rat, Dermal Acute LD50: 37421 mg/kg estimated, Rat, Oral
<b>Local effects</b>	Irritating to eyes, respiratory system and skin.
<b>Chronic effects</b>	Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury.
<b>Further information</b>	Symptoms may be delayed.

## 12. Ecological Information

<b>Ecotoxicity</b>	Components of this product have been identified as having potential environmental concerns. This material is not expected to be harmful to aquatic life.
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## 13. Disposal Considerations

<b>Disposal instructions</b>	Dispose in accordance with all applicable regulations. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
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## 14. Transport Information

### Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

### Department of Transportation (DOT) Requirements NON-BULK

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

## 15. Regulatory Information

### Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

### CERCLA (Superfund) reportable quantity

None

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

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

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**International regulations** The product does not need to be labelled in accordance with EC directives or respective national laws.

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

# TERRAGREEN BLUE GLASS CLEANER

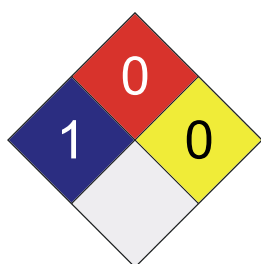
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## 16. Other Information

HMIS rating

Health	* 1
Flammability	0
Physical Hazard	0
Personal Protection	B

NFPA codes



**Prepared date**

20-Feb-2008 12:46:00

**Superseded date**

02-Nov-2006 16:00:57

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.