

**MATERIAL SAFETY DATA SHEET****1. Product and Company Identification**

**Material name** BRULIN 1696 PNC  
**Product number** 431016  
**Revision date** 12-Apr-2006  
**Company information** Brulin & Company, Inc.  
P.O. Box 270  
Indianapolis, IN 46206 US  
www.Brulin.com  
**Emergency** CHEMTREC 1-800-424-9300  
**General information** Phone: 317-923-3211  
Fax: 317-925-4596

**2. Hazards Identification**

**Emergency overview** Contact with this material can cause irritation to the skin, eyes and mucous membranes.  
**Potential short term health effects**  
**Eyes** Contact with eyes may cause irritation.  
**Skin** Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).  
**Inhalation** Prolonged or excessive inhalation may cause respiratory tract irritation.  
**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**3. Composition / Information on Ingredients**

Hazardous component(s)	CAS #	Percent
Propylene glycol monomethyl ether	107-98-2	< 10
Triethanolamine	102-71-6	< 10
<b>Composition comments</b>	No dangerous ingredients according to Directive 2001/58/EC	

**4. First Aid Measures**

**First aid procedures**  
**Eye contact** Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if irritation develops or persists.  
**Skin contact** Wash off with soap and water. Launder contaminated clothing before reuse.  
**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.  
**Ingestion** If conscious, drink plenty of water. If ingestion of a large amount does occur, seek medical attention.

**5. Fire Fighting Measures**

**Extinguishing media**  
**Suitable extinguishing media** Use methods for the surrounding fire.

**6. Accidental Release Measures**

**Environmental precautions** Prevent further leakage or spillage if safe to do so.  
**Methods for containment** Scoop up used absorbent into drums or other appropriate container.

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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. Dike far ahead of liquid spill for later disposal.

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

## 7. Handling and Storage

### Handling

Handle and open container with care.

### Storage

Keep at temperatures between 4 and 48°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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Triethanolamine	102-71-6	5 Mg/m3 TWA
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#### ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

Propylene glycol monomethyl ether	107-98-2	irritation; anesthesia
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Triethanolamine	102-71-6	irritation; liver; kidney
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### Engineering controls

Use general ventilation.

### Personal protective equipment

#### Eye / face protection

Safety glasses.

#### Skin protection

The use of butyl rubber gloves is recommended.

#### Respiratory protection

No personal respiratory protective equipment 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
Clarity	Not available
Color	water white
Form	Liquid.
Odor	mild
Odor threshold	Not available
Physical state	Liquid
pH	9.2
Melting point	30 °F
Freezing point	Not available
Boiling point	212 °F
Flash point	> 212 °F
Evaporation rate	1
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	1.057
Relative density	Not available

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<b>Solubility (H2O)</b>	100 %
<b>Octanol/H2O coeff</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>VOC (Weight %)</b>	3 %

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable at normal conditions
<b>Conditions to avoid</b>	Do not freeze.
<b>Incompatible materials</b>	Strong acids.
<b>Hazardous decomposition products</b>	Carbon monoxide
<b>Possibility of hazardous reactions</b>	Will not occur.

## 11. Toxicological Information

<b>Acute effects</b>	Acute LD50: 49578 mg/kg, Rat, Oral Acute LD50: 40849 mg/kg, Rat, Dermal
<b>Chronic effects</b>	Repeated or prolonged exposure may cause irritation of eyes and skin.

## 12. Ecological Information

<b>Ecotoxicity</b>	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

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

### Occupational Safety and Health Administration (OSHA)

**29 CFR 1910.1200 hazardous chemical** Yes

**CERCLA (Superfund) reportable quantity**

None

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## 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

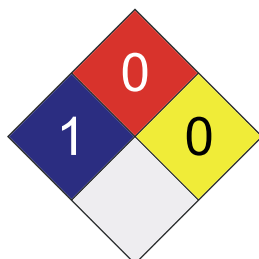
**International regulations** The product does not need to be labelled in accordance with EC directives or respective national laws.

## 16. Other Information

### HMIS rating

Health	/ 1
Flammability	0
Physical Hazard	0
Personal Protection	B

### NFPA codes



**Prepared date** 12-Apr-2006 09:00:14

### 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.