



## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

<b>Material name</b>	<b>NATURE-SOL 100</b>
<b>Product number</b>	700010
<b>Revision date</b>	09-Jan-2006
<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>	Flammable. Irritating to eyes. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. May be ignited by heat, sparks or flames.
<b>Potential short term health effects</b>	
<b>Eyes</b>	Contact with eyes may cause irritation.
<b>Skin</b>	Prolonged and/or repeated skin contact may result in mild irritation or redness.
<b>Inhalation</b>	Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.
<b>Ingestion</b>	Irritating to mouth, throat, and stomach.
<b>Target organs</b>	Eyes. Respiratory system.
<b>Potential environmental effects</b>	Components of this product are hazardous to aquatic life.

### 3. Composition / Information on Ingredients

Hazardous component(s)	CAS #	Percent
D-Limonene	5989-27-5	< 90
Propanol, (2-Methoxymethylethoxy)-	34590-94-8	< 10

### 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 with soap and water. Launder contaminated clothing before reuse. Get medical attention if irritation develops or persists.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen.
<b>Ingestion</b>	Give several glasses of water. Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person.
<b>General advice</b>	If you feel unwell, seek medical advice (show the label where possible).

### 5. Fire Fighting Measures

<b>Flammable properties</b>	Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Use extinguishing agent suitable for type of surrounding fire.

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## Protection of firefighters

**Protective equipment for firefighters** In the event of fire, wear self-contained breathing apparatus.

## 6. Accidental Release Measures

**Methods for containment** Stop the flow of material, if this is without risk. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).

**Methods for cleaning up** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. After removal flush contaminated area thoroughly with water.

## 7. Handling and Storage

**Handling** Do not handle or store near an open flame, heat or other sources of ignition.

**Storage** Keep container tightly closed. 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)

Propanol, 34590-94-8 150 Ppm STEL  
(2-Methoxymethylethoxy)-

#### ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Propanol, 34590-94-8 100 Ppm TWA  
(2-Methoxymethylethoxy)-

#### ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

Propanol, 34590-94-8 Irritation; CNS  
(2-Methoxymethylethoxy)-

### Personal protective equipment

**Eye / face protection** Wear chemical goggles.

**Skin protection** Wear impervious gloves for prolonged contact.

**Respiratory protection** 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. Avoid contact with the skin and the eyes. Wash hands before breaks and immediately after handling the product.

## 9. Physical & Chemical Properties

<b>Appearance</b>	clear
<b>Clarity</b>	Not available
<b>Color</b>	yellowish
<b>Form</b>	Liquid.
<b>Odor</b>	mild citrus
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Liquid
<b>pH</b>	Not available
<b>Melting point</b>	Not available
<b>Freezing point</b>	Not available
<b>Boiling point</b>	347 °F
<b>Flash point</b>	120 °F Pensky-Martens Closed Cup
<b>Evaporation rate</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available

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Specific gravity	0.859 - 0.862
Relative density	Not available
Solubility (H2O)	Not available
Octanol/H2O coeff	Not available
Auto-ignition temperature	237 °C estimated
Decomposition temperature	Not available
VOC (Weight %)	91.95 %

## 10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	Will not occur.

## 11. Toxicological Information

Acute effects	Acute LD50: 3974 mg/kg, Rat, Oral
Chronic effects	Prolonged exposure may cause chronic effects.
Further information	Symptoms may be delayed.

## 12. Ecological Information

Ecotoxicity	Components of this product are hazardous to aquatic life.
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## 13. Disposal Considerations

Waste codes	D001: Waste Flammable material with a flash point <140 F
Disposal instructions	Dispose in accordance with all applicable regulations. If discarded, this product is considered a RCRA ignitable waste, D001.

## 14. Transport Information

### Department of Transportation (DOT) Requirements

#### Basic shipping requirements:

Proper shipping name	Flammable liquids, n.o.s. (PROPANOL, (2-METHOXYMETHYLETHOXY)-, D-LIMONENE)
Hazard class	3
UN number	UN1993
Packaging group	III

#### Additional information:

Special provisions	B1, B52, IB3, T4, TP1, TP29
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242
ERG number	128

DOT



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

### Basic shipping requirements:

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Hazard class	3
UN number	UN1993
Packaging group	III

### Additional information:

Special provisions	B1, B52, IB3, T4, TP1, TP29
Packaging exceptions	150
Packaging non bulk	203
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## IATA

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Packaging group	III

### Additional information:

Packaging exceptions	150
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## DOT NON-BULK



## IATA



## IMDG

### Basic shipping requirements:

Proper shipping name	FLAMMABLE LIQUID, N.O.S. (PROPANOL, (2-METHOXYMETHYLETHOXY)-, D-LIMONENE)
Hazard class	3
UN number	UN1993
Packaging group	III

### Additional information:

Packaging exceptions	150
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## IMDG



## 15. Regulatory Information

### US federal regulations

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

### Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical	Yes
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### CERCLA (Superfund) reportable quantity

None

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

Hazard categories	Immediate Hazard - No Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
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Section 302 extremely hazardous substance	No
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**Section 311 hazardous chemical** Yes

## International regulations

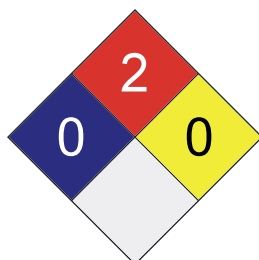
The product is classified and labelled in accordance with EC directives or respective national laws.

## 16. Other Information

### HMIS rating

Health	* 1
Flammability	2
Physical Hazard	0
Personal Protection	B

### NFPA codes



**Prepared date**

09-Jan-2006 11:47:31

**Superseded date**

28-Sep-2005 16:34:51

**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.