



## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

**Material name** CENTURIUM 2000  
**Product number** 101031  
**Revision date** 09-Jan-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** CAUTION  
Health injuries are not known or expected under normal use. Vapors may cause drowsiness and dizziness. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Prolonged exposure may cause chronic effects.

**Potential short term health effects**

- Eyes** Contact with eyes may cause irritation.
- Skin** Prolonged and/or repeated skin contact may result in mild irritation or redness.
- Inhalation** Vapors may cause drowsiness and dizziness.
- Ingestion** Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

**Potential environmental effects** This material is not expected to be harmful to aquatic life.

### 3. Composition / Information on Ingredients

Hazardous component(s)	CAS #	Percent
Dibutyl phthalate	84-74-2	< 2.5
Diethylene glycol monomethyl ether	111-77-3	< 10

### 4. First Aid Measures

**First aid procedures**

- Eye contact** Flush eyes with water as a precaution. Get medical attention if irritation develops or persists.
- Skin contact** Wash off with soap and water. Get medical attention if irritation develops or persists.
- Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.
- Ingestion** If conscious, drink plenty of water. Induce vomiting immediately and call a physician. Have victim rinse mouth thoroughly with water. If ingestion of a large amount does occur, seek medical attention.

**General advice** If you feel unwell, seek medical advice (show the label where possible). In case of shortness of breath, give oxygen.

### 5. Fire Fighting Measures

**Flammable properties** Not a fire hazard. None known.

**Extinguishing media**

- Suitable extinguishing media** Small Fires: Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
Large Fires: Water spray, fog or regular foam.

## 6. Accidental Release Measures

<b>Personal precautions</b>	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>	Prevent further leakage or spillage if safe to do so.
<b>Methods for containment</b>	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	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

<b>Handling</b>	Handle and open container with care.
<b>Storage</b>	Keep at temperatures between 4 and 38°C. Use care in handling/storage.

## 8. Exposure Controls / Personal Protection

### Exposure guidelines

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

Dibutyl phthalate	84-74-2	5 Mg/m3 TWA
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#### ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

Dibutyl phthalate	84-74-2	reproductive; irritation
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#### OSHA - Final PELs - Time Weighted Averages (TWAs)

Dibutyl phthalate	84-74-2	5 Mg/m3 TWA
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<b>Engineering controls</b>	Use general ventilation.
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### Personal protective equipment

<b>Eye / face protection</b>	Avoid contact with eyes.
<b>Skin protection</b>	Wear impervious gloves for prolonged contact.
<b>Respiratory protection</b>	No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

<b>Appearance</b>	Liquid.
<b>Clarity</b>	Not available
<b>Color</b>	Milky white
<b>Form</b>	Liquid.
<b>Odor</b>	mild
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Liquid
<b>pH</b>	8.6 - 9
<b>Melting point</b>	32 °F
<b>Freezing point</b>	Not available
<b>Boiling point</b>	212 °F
<b>Flash point</b>	> 212 °F Pensky-Martens Closed Cup
<b>Evaporation rate</b>	1
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability limits in air, upper, % by volume</b>	Not available

## CENTURIUM 2000

Product number: 101031

Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.035
Relative density	Not available
Solubility (H <sub>2</sub> O)	100 %
Octanol/H <sub>2</sub> O coeff	Not available
Auto-ignition temperature	215 °C estimated
Decomposition temperature	Not available
VOC (Weight %)	5.89 % estimated

## 10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions. No hazards to be especially mentioned.
Conditions to avoid	Do not freeze.
Incompatible materials	Acids. Oxidizing materials. None known.
Hazardous decomposition products	At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

## 11. Toxicological Information

Not available

## 12. Ecological Information

Ecotoxicity	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

Disposal instructions	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	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
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### Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical	Yes
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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

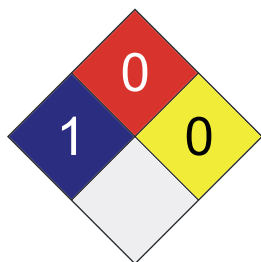
**International regulations** The product is classified and labelled in accordance with EC directives or respective national laws.

## 16. Other Information

HMIS rating

Health	/ 1
Flammability	0
Physical Hazard	0
Personal Protection	B

NFPA codes



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**Superseded date**

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**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.