

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION

Valuemed Professional Products Ltd.  
16410-117 Ave.  
EDMONTON AB T5M 3W2

Phone: 780-440-1911  
In Case of Emergency Only:  
phone CANUTEC at (613) 996-6666

**Product name:** EnzyMed OP™

Code: MO0004-16E

**Other name:**

**Distributed by:** Valuemed Professional Products Ltd.

**Product use:** multienzyme detergent for ultrasonic cleaning of medical instruments

**Date completed:** June 15, 2016

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
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Proprietary Enzyme Formulation		
diethylene glycol monoethyl ether	1 - 5	111-90-0

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## 3. HAZARDS IDENTIFICATION

Eye irritant. Harmful if swallowed.

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## 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Induce vomiting only on the direct advice of a poison control centre. Get medical attention.

**Eye contact:** Flush with plenty of water for at least 15 minutes. Get medical attention.

**Skin contact:** Remove contaminated clothing and flush with plenty of water.

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## 5. FIRE - FIGHTING MEASURES

**Flash point (test method):** >90°C (TCC)

**Flammable limits (%):** Not available

**Lower:** Not available

**Upper:** Not available

**Fire extinguishing substances:** carbon dioxide, foam or dry chemical

**Autoignition temperatures:** Not available

**Hazardous combustion products:** May liberate oxides of carbon and nitrogen.

**Explosion data:**

**Sensitivity to mechanical impact:** Not available

**Sensitivity to static discharge:** Not available

**Special firefighting procedures:** As for surrounding fire. Fire fighters should wear full protective clothing and self contained breathing equipment.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear appropriate protective equipment.

**Environmental precautions:** Prevent bulk quantities from entering sewers, waterways or low areas.

**Methods for cleaning up:** Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into containers. Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.

## 7. HANDLING AND STORAGE

**Handling:** Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.  
**Storage:** Keep out of reach of children. Keep container tightly closed. Store in a cool, dry area.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls:** Special ventilation requirements not normally necessary  
**Respiratory protection:** Not normally necessary.  
**Eye protection:** Not normally necessary. Safety glasses may be worn.  
**Other protection:** Not normally necessary. Gloves may be worn.

### Exposure limits:

INGREDIENT	ACGIH	OSHA	Other
diethylene glycol monoethyl ether	Not available		

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Liquid	<b>Solubility in water:</b> Complete
<b>Boiling point:</b> Not available	<b>Vapour pressure:</b> Not available
<b>Vapour density:</b> Not available	<b>Evaporation rate:</b> Not available
<b>Freezing point:</b> Not available	<b>Odour threshold:</b> Not available
<b>Sp. Gravity:</b> 1.023	<b>pH:</b> 6.0 - 8.0
<b>Appearance &amp; odour:</b>	Hazy, teal liquid with a light pleasant fragrance.

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## 10. STABILITY AND REACTIVITY

**Stability:** Stable  
**Conditions of instability:** Not available  
**Incompatibility:** ( ) Water (X) Oxidizers (X) Acid (X) Base ( ) Other  
**Conditions of reactivity:** Not available  
**Hazardous decomposition products:** Not available

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## 11. TOXICOLOGICAL PROPERTIES

### POTENTIAL ACUTE HEALTH EFFECTS

**Inhalation:** May be irritating to respiratory system.  
**Ingestion:** Swallowing small amounts of this material is not likely to cause harmful effects. Large amounts may cause stomach and intestinal irritation, abdominal pain and vomiting.  
**Eye contact:** May cause mild to severe irritation such as stinging, tearing, redness and swelling of the eyes.  
**Skin contact:** May cause skin irritation.  
**Skin absorption:** Not applicable

### POTENTIAL CHRONIC HEALTH EFFECTS:

**Inhalation:** No known significant effects.  
**Ingestion:** Not available  
**Eye contact:** Not available  
**Skin contact:** Prolonged contact may cause discomfort  
**Skin absorption:** Not applicable

<b>Sensitization of product:</b>	Not available
<b>Carcinogenicity:</b> IARC (1, 2A or 2B)	No known significant effects.
ACGIH: (A1, A2 or A3)	No known significant effects.
<b>Reproductive toxicity:</b>	No known significant effects.
<b>Teratogenicity:</b>	No known significant effects.
<b>Mutagenicity:</b>	No known significant effects.
<b>Synergistic product:</b>	Not available

HAZARDOUS INGREDIENTS  
diethylene glycol monoethyl ether

CAS NO.  
111-90-0

TOXICITY DATA  
LD<sub>50</sub> Oral (rat) 1920 mg/kg  
LD<sub>50</sub> Dermal (rabbit) 4200 µL/kg

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## 12. ECOLOGICAL INFORMATION

**Ecotoxicological information:** All components are biodegradable.

**Other information:**

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## 13. DISPOSAL CONSIDERATIONS

**Waste disposal:** Disposal of all waste must be done according to local, provincial and federal regulations.

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## 14. TRANSPORT INFORMATION

**TDG classification:** Not regulated

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## 15. REGULATORY INFORMATION

**WHMIS:** D2B Toxic Material Causing Other Effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

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## 16. PREPARATION INFORMATION

**Prepared by:** Technical Services Department, Valuemed Professional Products Ltd. Ph: (780) 454-1899