



# MATERIAL SAFETY DATA SHEET

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## SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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**Product Name: DIETHYLENE GLYCOL (DEG)**

Company: Recochem Inc. ABN: 69 010 485 999  
Address : 1809 Lytton Road, Lytton, Queensland 4178  
Phone: (07) 3308 5200 Fax: (07) 3308 5201  
Emergency Telephone Number: (07) 3308 5200 Day, After Hours 1300 131 001

Other Names: 2,2-Oxydiethanol, Ethylene Diglycol  
Manufacturer's Product Code: 16631  
Recommended Use: Various

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## SECTION 2 HAZARDS IDENTIFICATION

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**CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA  
NOT A DANGEROUS GOODS ACCORDING TO THE CRITERIA OF THE ADG CODE**

**Symbol:** Xn - Harmful  
**Risk Phrases:** R22 - Harmful if swallowed  
**Safety Phrases:** S2 - Keep out of the reach of children  
S46 - If swallowed, seek medical advice immediately and show this container or label

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## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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**Hazardous Ingredients**

| <i>Chemical Entity</i> | <i>CAS Number</i> | <i>Proportion (%)</i> |
|------------------------|-------------------|-----------------------|
| Diethylene Glycol      | 111-46-6          | 100                   |

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## SECTION 4 FIRST AID MEASURES

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**FIRST AID TREATMENT**

**Swallowed:** If swallowed, do NOT induce vomiting. Have conscious person drink several glasses of water or milk. SEEK IMMEDIATE MEDICAL ATTENTION.  
**Eye:** If in eyes, hold eyes open, flood with water for at least 15 minutes. If irritation persists seek medical attention.  
**Skin:** If skin contact occurs, wash skin thoroughly with water and follow by washing with soap if available. If irritation persists, seek medical attention.  
**Inhaled:** Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

**First Aid facilities:** Potable water should be available to rinse eyes or skin. Provide eye baths and safety showers.  
**Advice to Doctor:** Treat symptomatically.  
**Additional Information:** None available.

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## SECTION 5 FIRE FIGHTING MEASURES

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**Suitable Extinguishing Media:** For a small fire use dry chemicals, carbon dioxide, water spray or foam. For large fires use water spray or fog. Do not use water jet.  
**Hazards from combustion products:** Carbon dioxide and carbon monoxide.  
**Precautions for Fire Fighters and Special Protective Equipment:** Wear full protective clothing and self-contained breathing apparatus.

**Product: DIETHYLENE GLYCOL**

**Additional Information:** When heated to decomposition, emits acrid smoke and irritating fumes. Not a product presenting risks of explosion.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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Observe all local and national regulations.

**Spills and Disposal, Methods and Materials for Containment and Clean Up Procedures:** For small spills, dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. For large spills, absorb with an inert material and put the spilled material in an appropriate waste disposal container. Dispose of in accordance with regional regulations.

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**SECTION 7 HANDLING AND STORAGE**

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**Precautions for Safe Handling and Storage:** Avoid contact with eyes, skin and clothing. DO NOT ingest. Avoid breathing dust, keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Before eating, drinking or smoking, remove contaminated clothing and wash hands. Do not store near strong oxidants. Keep container in a cool, well-ventilated area. Avoid all possible sources of ignition. Do not store near strong oxidisers.

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**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**Exposure Standards:** Vapour TWA 100mg/m<sup>3</sup> (23ppm).

**Biological Limit Values:** No biological limit allocated.

**Personal Protective Equipment:**

**Respiratory Protection:** Wear appropriate respirator when ventilation is inadequate.

**Hand Protection:** Use solvent resistant gloves (nitrile, PVC or neoprene).

**Eye Protection:** Wear safety goggles.

**Protective Clothing:** No special protection is ordinarily required beyond standard issue work clothes.

**Engineering Controls:** Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists.

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**SECTION 9 IDENTIFICATION**

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**PHYSICAL DESCRIPTION / CHEMICAL PROPERTIES**

|                                 |                                 |
|---------------------------------|---------------------------------|
| Appearance                      | Clear colourless viscous liquid |
| Odour                           | Mild                            |
| Vapour Pressure (mmHg @ 20°C):  | < 0.01                          |
| Vapour Density (air = 1)        | 3.6                             |
| Boiling Point (°C):             | 245                             |
| Freezing/Melting Point (°C):    | -6.1                            |
| Solubility in Water             | Soluble in water                |
| Specific Gravity (g/ml @ 15°C): | 1.12                            |
| Flashpoint (°C):                | 138 (Closed Cup)                |
| Flammability Limits (%):        | 1.7 - 12.3                      |
| Auto Ignition Temperature (°C): | 228                             |
| Percent Volatiles               | 0                               |

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**SECTION 10 STABILITY AND REACTIVITY**

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**Chemical Stability:** Stable under normal conditions of use.

**Conditions to Avoid:** No additional remark.

**Incompatible Materials:** Strong oxidising agents, acids, alkalis

**Hazardous Decomposition Products:** Burning can produce carbon monoxide and/or carbon dioxide.

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**SECTION 11 TOXOCOLOGICAL INFORMATION**

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**HEALTH EFFECTS**

*Acute:*

**Product: DIETHYLENE GLYCOL**

**Swallowed:** Hazardous in case of ingestion. May cause gastrointestinal irritation with nausea, headaches, dizziness and vomiting.

**Eye:** Irritating to eyes.

**Skin:** Irritant – prolonged contact may cause dermatitis.

**Inhaled:** Inhalation should be minimal since vapours are unlikely due to physical properties. Inhalation may cause irritation to lung.

**Toxicity to Animals**      Oral toxicity (LD50): 14.8g/kg (Rat).  
   Dermal toxicity (LD50): 11.9 g/kg (Rabbit).

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**SECTION 12    ECOLOGICAL INFORMATION**

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**Ecotoxicity:** Not available.

**Mobility:** Miscible with water.

**Persistence/degradability:** Biodegradable.

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**SECTION 13    DISPOSAL CONSIDERATIONS**

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**Disposal Methods:** Ensure waste disposal conforms to local waste disposal regulations.

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**SECTION 14    TRANSPORT INFORMATION**

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|                                  |               |                       |     |
|----------------------------------|---------------|-----------------------|-----|
| UN Number:                       | Non Regulated | Proper Shipping Name: | N/A |
| Class:                           | N/A           | Subsidiary Risk:      | N/A |
| Packing Group:                   | N/A           | Hazchem Code:         | N/A |
| Special Precautions<br>for User: |               |                       |     |

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**SECTION 15    REGULATORY INFORMATION**

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Poisons Schedule      : None

AICS                        : Listed

Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76:2010) : N/A

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**SECTION 16    OTHER INFORMATION**

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Further Information may be obtained by contacting Recochem on (07) 3308 5200

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The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product.

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