



# SAFETY DATA SHEET

## SECTION 1 IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

<b>Product Identifier</b>	<b>DIETHYLENE GLYCOL (DEG)</b>
<b>Other Names</b>	DEG, 2,2-Oxydiethanol, Ethylene Diglycol
<b>Manufacturer's Product Code</b>	16631
<b>Recommended Use</b>	Various

### Details of Supplier/Manufacturer

Company:	Recochem Inc. ABN: 69 010 485 999
Address:	1809 Lytton Road, Lytton, Queensland 4178
Phone:	(07) 3308 5200 Fax: (07) 3308 5201
Website:	www.recochem.com.au


### Emergency Telephone Numbers

Business Hours:	(07) 3308 5200
After Hours:	1300 131 001
Poisons Information:	Australia: 13 11 26 New Zealand: 0800 764 766

## SECTION 2 HAZARDS IDENTIFICATION

<b>Hazardous chemical</b>	<i>according to classification by Safe Work Australia</i>
<b>Non-dangerous goods</b>	<i>according to the Australian Code for the Transport of Dangerous Goods by Road and Rail</i>

<b>Signal Word</b>	<b>WARNING</b>
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<b>Hazardous chemical classification</b>	<b>Pictogram</b>	<b>Hazard statement</b>
Acute Toxicity - Oral, Category 4	 EXCLAMATION MARK	H302 Harmful if swallowed

### Precautionary statements:

<b>GENERAL</b>	
P101	If medical advice is needed, have product container or label at hand
P102	Keep out of reach of children
P103	Read label before use
<b>PREVENTATIVE</b>	
P264	Wash thoroughly after handling
P270	Do not eat, drink or smoke when using this product

**Product: DIETHYLENE GLYCOL**

<i>RESPONSE</i>	
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P330	Rinse mouth
<i>DISPOSAL</i>	
P501	Dispose of contents/container in accordance with local regulations

**SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS**

**Ingredients Names and Proportions**

Chemical Entity	CAS Number	Proportion (%)
Diethylene Glycol	111-46-6	100

**SECTION 4 FIRST AID MEASURES**

**Description of necessary first aid measures**

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

**Symptoms caused by exposure**

Inhalation:	Inhalation should be minimal since vapours are unlikely due to physical properties. Inhalation may cause lung irritation
Skin:	May include burning sensation, redness, swelling and/or blisters. Prolonged contact may cause dermatitis
Eye:	May include burning sensation, redness, swelling and/or blurred vision
Ingestion:	May cause gastrointestinal irritation with nausea, headaches, dizziness and vomiting

**Medical attention and special treatment**

Treat symptomatically.

**SECTION 5 FIRE FIGHTING MEASURES**

**Suitable extinguishing equipment**

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 in a jet.

**Specific hazards arising from the chemical**

Carbon dioxide and carbon monoxide. When heated to decomposition, emits acrid smoke and irritating fumes. Not a product presenting risks of explosion.

**Special protective equipment and precautions for fire fighters**

Wear full protective clothing and self-contained breathing apparatus.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment and emergency procedures**

Avoid contact with spilled or released material. Do NOT ingest. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area. Ventilate contaminated area thoroughly.

**Environmental precautions**

Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterways using sand, earth or other appropriate barriers.

**Methods and materials for containment and cleaning up**

For small spills (< 1 drum), dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

For larger spills (> 1 drum), absorb with an inert material and put the spilled material in an appropriate waste disposal container. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

Retain as contaminated waste. Dispose of in accordance with regional regulations.

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**SECTION 7 HANDLING AND STORAGE**

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**Precautions for safe handling**

Avoid contact with skin, eyes and clothing. Do NOT ingest. Avoid breathing vapours. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Handle and open containers with care in a well-ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Do not empty into drains.

**Conditions for safe storage, including any incompatibilities**

Store in a cool, well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidisers.

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**SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

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**Exposure control measures**

From National Occupational Health & Safety Commission (NOHSC) Worksafe Australia -  
Diethylene glycol: 100mg/m<sup>3</sup> (23ppm) TWA.

**Biological monitoring**

No biological limit allocated.

**Engineering controls**

Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

**Individual protection measures**

Eye and face protection:	Wear safety goggles.
Skin protection:	Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.
Respiratory protection:	If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.
Thermal hazards:	Not applicable.

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance:	Clear colourless viscous liquid
Odour:	Mild
Odour threshold (ppm):	Data not available
pH:	Data not available
Melting point/freezing point (°C):	-6.1
Initial boiling point and boiling range (°C):	245
Flash point (°C):	138 (closed cup)
Evaporation rate (Butyl acetate = 1):	< 0.01
Flammability:	Data not available
Upper/lower flammability or explosive limits (%):	1.7 - 12.3
Vapour pressure (mmHg @ 20°C):	< 0.01
Vapour density (air = 1):	3.6
Density (g/ml @ 15°C):	1.12
Solubility:	Soluble in water
Partition coefficient: n-octanol/water:	Data not available
Auto-ignition temperature (°C):	228
Decomposition temperature (°C):	Data not available
Kinematic viscosity (cm <sup>2</sup> /s @ 40°C):	0.32

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**SECTION 10 STABILITY AND REACTIVITY**

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**Reactivity**

Stable under normal conditions of use.

**Chemical stability**

Stable under normal conditions of use.

**Possibility of hazardous reactions**

Stable under normal conditions of use.

**Conditions to avoid**

Stable under normal conditions of use.

**Incompatible materials**

Strong oxidising agents, acids, alkalis.

**Hazardous decomposition products**

Burning can produce carbon monoxide and/or carbon dioxide.

**SECTION 11 TOXICOLOGICAL INFORMATION**

Acute toxicity:	Low toxicity in animals - LD50 Oral (rat) > 15,000mg/kg LD50 Dermal (rabbit) > 12,000mg/kg
Skin corrosion/irritation:	May cause mild skin irritation
Serious eye damage/irritation:	May cause mild eye irritation
Respiratory or skin sensitisation:	Not expected to be a sensitiser
Germ cell mutagenicity:	No evidence of mutagenic activity
Carcinogenicity:	Not expected to be carcinogenic
Reproductive toxicity:	Not expected to impair fertility
Specific Target Organ Toxicity (STOT) – single exposure:	Data not available
Specific Target Organ Toxicity (STOT) – repeated exposure:	Data not available
Aspiration hazard:	Data not available

**SECTION 12 ECOLOGICAL INFORMATION**

**Ecotoxicity**

Acute toxicity:

Fish –	Data not available
Aquatic invertebrate –	Data not available
Algae –	Data not available
Microorganisms –	Data not available

Chronic toxicity:

Fish –	Data not available
Aquatic invertebrate –	Data not available
Algae –	Data not available
Microorganisms –	Data not available

**Persistence and degradability**

Biodegradable.

**Bioaccumulative potential**

Data not available.

**Mobility in soil**

Miscible with water.

**Other adverse effects**

Data not available.

**Product: DIETHYLENE GLYCOL**

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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Ensure waste disposal conforms to local waste disposal regulations.

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**SECTION 14 TRANSPORT INFORMATION**

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<b>UN number:</b>	Not applicable
<b>Proper shipping name:</b>	Not applicable
<b>Australian Dangerous Goods class:</b>	Not applicable
<b>Australian Dangerous Goods packing group:</b>	Not applicable
<b>Hazchem code:</b>	Not applicable

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**SECTION 15 REGULATORY INFORMATION**

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Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:	5
Australian Inventory of Chemical Substances (AICS):	Listed
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76):	Not applicable

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**SECTION 16 OTHER INFORMATION**

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Date of preparation:	14/03/2016
Revision number:	5
Changes in this revision:	Corrected Section 3

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This SDS summarises product safety information at the date of issue, to the best of our knowledge, as a general guide. Recochem cannot anticipate or control the conditions under which the product is used, so prior to usage each user must assess and control the risks associated with their use of the product. Users should also consult the relevant legislation governing the use and storage of this product. We make no warranties, express or implied, and assume no liability in connection with any use of information contained within this document. If clarification or further information is needed, the user should contact Recochem on (07) 3308 5200.

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