



# MATERIAL SAFETY DATA SHEET

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## SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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### Product Name: BUTYL GLYCOL ETHER

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: Butyl Ethoxol, Butyl Glycol, Butyl Oxitol, Butyl Icinol, Ethylene Glycol Monobutyl ether, Ethylene Glycol Butyl Ether, 2-Butoxy Ethanol, Ethanol 2-butoxy-, EGBE  
Manufacturer's Product Code: 16890  
Recommended Use: Solvent

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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**

**Symbols:** Xn - Harmful  
Xi - Irritant  
**Risk Phrases:** R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed  
R36/38 - Irritating to eyes and skin  
**Safety Phrases:** S2 - Keep out of the reach of children  
S36/37 - Wear suitable protective clothing and gloves  
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>
2-Butoxyethanol	111-76-2	> 99

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## SECTION 4 FIRST AID MEASURES

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### FIRST AID TREATMENT

**Swallowed:** If swallowed, do NOT induce vomiting. Transport to nearest medical facility for additional treatment.  
**Eye:** If in eyes, hold eyes open, flood with water for at least 15 minutes. Seek immediate medical assistance.  
**Skin:** If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available. Can be absorbed through skin with resultant toxic effects. Seek immediate medical assistance.  
**Inhaled:** Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing.

**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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**Specific Hazards:** Combustible liquid.

**Hazards from combustion products:** Carbon monoxide and/or Carbon dioxide may be evolved.

**Product: BUTYL GLYCOL ETHER**

**Fire Fighting Media and Instructions:** Combustible liquid. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. Use water fog or spray, foam, dry agent

**Additional Information:** None.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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Observe all local and national regulations.

**Spills and Disposal:** Shut off all sources of ignition. Increase ventilation. Clear area of all unprotected personnel. Stop leak if safe to do so. Absorb with dry earth, sand or other non-combustible and inert material. Collect and seal improperly labelled containers or drums for disposal. Wash down area with excess water.

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**SECTION 7 HANDLING AND STORAGE**

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**Precautions for Safe Handling and Storage:** Avoid breathing of or contact with material. Use in well ventilated areas. Wash thoroughly after handling. Avoid contact with skin and eyes and clothing. Handle open containers in well ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Do not empty into drains. 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, copper and natural rubber.

**Flammability:** Combustible.

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**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**Exposure Standards:** National Occupational Health & Safety Commission (NOHSC) Worksafe Australia has set an exposure standard 96.9mg/m<sup>3</sup> (20ppm) TWA (8hr) skin, STEL 242mg/m<sup>3</sup> (50ppm).

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

**Personal Protective Equipment:**

**Respiratory Protection:** If inhalation risk exists an approved organic vapour respirator (AS/NZS 1715 and 1716) should be worn.

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

**Eye Protection:** Wear safety goggles.

**Protective Clothing:** Use chemical resistant glove/gauntlets, boots and apron. Skin protection not 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. Keep containers closed when not in use.

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**SECTION 9 IDENTIFICATION**

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**PHYSICAL DESCRIPTION / CHEMICAL PROPERTIES**

Appearance	Colourless Clear Liquid
Odour	Unpleasant
pH:	N/A
Vapour Pressure (mmHg @ 20°C):	0.1 kPa
Vapour Density (air = 1)	4.8
Boiling Point (°C):	166
Freezing/Melting Point (°C):	-65
Solubility in Water	Miscible with water
Specific Gravity (g/ml @ 15°C):	0.9
Flashpoint (°C):	68 (Closed cup)
Flammability Limits (%):	1.1 - 10.6
Auto Ignition Temperature (°C):	230
Percent Volatiles	100

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**SECTION 10 STABILITY AND REACTIVITY**

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

**Conditions to Avoid:** Avoid heat, sparks, open flames and other ignition sources.

**Incompatible Materials:** Strong oxidising agents, copper and natural rubber.

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

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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**HEALTH EFFECTS**

*Acute:*

**Swallowed:** Swallowing may result in nausea, vomiting and central nervous system depression (similar to drunkenness).

**Eye:** Irritation to eyes.

**Skin:** Contact with skin will result in irritation. Will have a degreasing effect on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis. Can be absorbed through the skin. Effects can include those described for swallowing.

**Inhaled:** Breathing in vapour will produce respiratory irritation. Breathing in high concentrations can produce central nervous system depression which can lead to unconsciousness.

**Chronic:** Available evidence from animal studies indicates that repeated or prolonged exposure to this material could result in effects on the blood system, liver and kidneys.

**Toxicological Data:**

Oral LD50 (rat):	530-3000mg/kg
Oral LD50 (guinea pig):	950-1414 mg/kg
Dermal LD50 (rabbit):	100-610 mg/kg
Dermal LD50 (guinea pig):	1200-2000mg/kg
Inhalation LC50 (rat):	450-490 ppm/4h.

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**SECTION 12 ECOLOGICAL INFORMATION**

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**Ecotoxicity:** No data.

**Mobility:** Miscible with water.

**Persistence/degradability:** Biodegradable, has negligible potential to bioaccumulate.

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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:	None	Proper Shipping Name:	N/A
Class:	N/A	Subsidiary Risk:	N/A
Packing Group:	N/A	Hazchem Code:	N/A
Special Precautions for User:	None		

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**SECTION 15 REGULATORY INFORMATION**

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Poisons Schedule : 6

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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