



# SAFETY DATA SHEET

## SECTION 1 IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

<b>Product Identifier</b>	<b>BDGE</b>
<b>Other Names</b>	Butyl Diglycol Ether, Diethylene Glycol Monobutyl Ether, Butyl CARBITOL, Butoxydiglycol, 2-(2-Butoxyethoxy) Ethanol
<b>Manufacturer's Product Code</b>	16160
<b>Recommended Use</b>	Solvent

### 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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Hazardous chemical classification	Pictogram	Hazard statement
Eye Damage/Irritation, Category 2A	 EXCLAMATION	H319 Causes serious eye irritation

### Precautionary statements:

GENERAL	
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

**Product: BDGE**

<i>PREVENTATIVE</i>	
P264	Wash thoroughly after handling
P280	Wear eye protection/face protection
<i>RESPONSE</i>	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention

**SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS****Ingredients Names and Proportions**

Chemical Entity	CAS Number	Proportion (%)
Diethylene Glycol Monobutyl Ether	112-34-5	> 90

**SECTION 4 FIRST AID MEASURES****Description of necessary first aid measures**

Inhalation:	Remove victim from exposure 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. Seek immediate medical attention
Ingestion:	If swallowed, do NOT induce vomiting. Transport to nearest medical facility for additional treatment

**Symptoms caused by exposure**

Inhalation:	Vapour from heated material may cause headache, nausea and dizziness
Skin:	Prolonged contact causes mild to moderate local redness and swelling
Eye:	May cause serious eye irritation. May include burning sensation, redness, swelling and blurred vision.
Ingestion:	May produce signs of intoxication i.e. incoordination, dizziness, drowsiness headache, nausea, mental confusion, possible slurred speech and stupor, depending on quantity ingested

**Medical attention and special treatment**

Treat symptomatically.

**SECTION 5 FIRE FIGHTING MEASURES****Suitable extinguishing equipment**

Use water fog or spray, foam, dry agent.

**Specific hazards arising from the chemical**

Carbon monoxide and/or carbon dioxide may be evolved.

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

Combustible liquid. 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. 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**

Absorb with dry earth, sand or other non-combustible and inert material. Collect and seal improperly labelled containers or drums for disposal.

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**SECTION 7 HANDLING AND STORAGE**

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**Precautions for safe handling**

Avoid breathing vapours. Do NOT ingest. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Handle and open containers with care in a well-ventilated area. 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 oxidants, acid, bases and metals.

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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 Monobutyl Ether: No data available.

**Biological monitoring**

No biological limit allocated.

**Engineering controls**

Ensure that adequate ventilation is provided. 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 inhalation risk exists, use approved 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 liquid
Odour:	Mild characteristic
Odour threshold (ppm):	Data not available
pH:	Data not available
Melting point/freezing point (°C):	-68
Initial boiling point and boiling range (°C):	231
Flash point (°C):	78 (closed cup)
Evaporation rate (Butyl acetate = 1):	Data not available
Flammability:	Combustible
Upper/lower flammability or explosive limits (%):	0.85 – 24.6
Vapour pressure (kPa @ 20°C):	0.03
Vapour density (air = 1):	5.6
Density (g/ml @ 15°C):	0.95
Solubility:	Miscible with water
Partition coefficient: n-octanol/water:	Data not available
Auto-ignition temperature (°C):	Data not available
Decomposition temperature (°C):	204
Kinematic viscosity (mm <sup>2</sup> /s @ 20°C):	Data not available

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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**

Avoid heat, sparks, open flames and other ignition sources.

**Incompatible materials**

Strong oxidising agents, acids, bases and metals.

**Hazardous decomposition products**

Burning can produce carbon monoxide and/or carbon dioxide.

**SECTION 11 TOXICOLOGICAL INFORMATION**

Acute toxicity:	Oral (rat) LD50: 5660mg/kg Dermal (rabbit) LD50: 2700mg/kg
Skin corrosion/irritation:	Prolonged or widespread contact may result in irritation and the absorption of potentially harmful amounts of material.
Serious eye damage/irritation:	Causes severe irritation to eyes
Respiratory or skin sensitisation:	Not expected to be a sensitiser
Germ cell mutagenicity:	Not expected to be a mutagen
Carcinogenicity:	Not expected to be a carcinogen
Reproductive toxicity:	Not expected to impair fertility
Specific Target Organ Toxicity (STOT) – single exposure:	Slightly toxic.
Specific Target Organ Toxicity (STOT) – repeated exposure:	Prolonged or repeated overexposure to mist or vapour generated at high temperatures may result in the inhalation of harmful amounts of material. Repeated overexposure may cause damage to kidneys.
Aspiration hazard:	No aspiration hazard expected

**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: BDGE

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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:	Not scheduled
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:	03/08/2015
Revision number:	4
Changes in this revision:	Update to GHS standard Rename product

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This MSDS 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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