



# 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> |
|--------------------|----------------|

| Hazardous chemical classification  | Pictogram  | Hazard statement                   |
|------------------------------------|--|------------------------------------|
| Eye Damage/Irritation, Category 2A | <br>EXCLAMATION | H319 Causes serious eye irritation |
| Flammable Liquids, Category 4      | N/A  | H227 Combustible liquid            |

### 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> |  |
| P210                | Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking                                   |
| P264                | Wash thoroughly after handling   |
| P280                | Wear protective gloves/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  |
| P370 + P378         | In case of fire: Use foam/water spray/fog to extinguish  |
| <i>STORAGE</i>      |  |
| P403 + P235         | Store in a well-ventilated place. Keep cool  |
| <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 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.

**Product: BDGE**

**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     |

**Product: BDGE**

|   |                     |
|---|---------------------|
| 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  |

**SECTION 10 STABILITY AND REACTIVITY****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<br>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  |

**Product: BDGE**

|  |   |
|--|---|
| 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.

**SECTION 13 DISPOSAL CONSIDERATIONS**

Ensure waste disposal conforms to local waste disposal regulations.

**SECTION 14 TRANSPORT INFORMATION**

|  |                |
|--|----------------|
| <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 |

**Product: BDGE**

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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:      | 28/02/2022                 |
| Revision number:          | 6                          |
| Changes in this revision: | Reviewed due to expiration |

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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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