



# SAFETY DATA SHEET

**PRODUCT NAME:** BUTYL GLYCOL ETHER

Issue Date: May 23

## IDENTIFICATION

**Product Name:** Butyl Glycol Ether  
**Other Names:** Ethylene glycol monobutyl ether, 2-Butoxyethanol, butyl glycol, glycol ether EB, ethylene glycol n-butyl ether  
**Product Code:** ZBGLYC  
**Uses:** Chemical intermediate, solvent, stabilizing agent  
**Supplier:** HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton  
Phone: 079744971 Web: [www.hamchem.co.nz](http://www.hamchem.co.nz) Email: [info@hamchem.nz](mailto:info@hamchem.nz)

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

## HAZARD IDENTIFICATION



### GHS Classifications

Flammable Liquid – Category 4  
Acute Toxicity (Oral) – Category 4  
Acute Toxicity (Inhalation) – Category 4  
Eye Irritation – Category 2

**Signal word:** WARNING

### Hazard Statements

H227 Combustible liquid.  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.

### Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P261 Avoid breathing fume/mist/vapours/spray  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/clothing and protective eye/face protection.

### Response

P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.  
P330 Rinse mouth.  
P304 + P340 IF INHALED: Remove to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTRE or doctor if you feel unwell.

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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.

P370 + P378 In case of fire: Use water fog or mist or alcohol-resistant foam to extinguish.

**Storage**

P403 Store in a well-ventilated place.

**Disposal**

P501 Dispose of product to a landfill in accordance with any local regulations.

**COMPOSITION & INFORMATION ON INGREDIENTS**

Chemical Entity	CAS No.	Proportion (% w/w)
Butyl Glycol Ether	111-76-2	99

**FIRST AID MEASURES**

Consult the National Poisons Centre, telephone 0800 764 766 [0800 POISON] or a doctor in every case of suspected poisoning. If medical advice is needed, have product container or label at hand.

**INGESTION:** Rinse mouth with water. Give water to drink. Do NOT induce vomiting. Give activated charcoal. Call a Poison Centre or doctor for advice. Get medical assistance if person feels unwell. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs.

**INHALATION:** Move person to fresh air and keep warm and at rest. Call a Poison Centre or doctor for advice. If breathing is difficult, give oxygen.

**SKIN:** Remove all contaminated clothing and footwear. Wash affected area with plenty of water followed by soap and water. Get medical advice if irritation persists. Wash contaminated clothing/footwear before re-use.

**EYES:** Hold eyes open and rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do after the first 5 minutes. Continue rinsing for at least 15 minutes. Get medical attention if irritation persists.

**NOTES TO PHYSICIAN:** Treat symptomatically.

**FIRE FIGHTING MEASURES**

**FLASH POINT:** 67 °C

**FLAMMABLE LIMITS:** LFL: Not known UFL: Not known

**EXTINGUISHING MEDIA:** Use dry chemical powder, carbon dioxide, water spray or alcohol resistant foam.

**FIRE & EXPLOSION HAZARDS:** Toxic gases and vapours may be generated; carbon monoxide, carbon dioxide.

**SPECIFIC HAZARDS:** No information available.

**FIRE-FIGHTING EQUIPMENT:** Wear self-contained breathing apparatus and personal protection clothing.

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### **ACCIDENTAL RELEASE MEASURES**

**SPILLS:** Combustible liquid. Isolate hazard area and keep unnecessary and unprotected people away from area. Stay upwind and keep out of low-lying areas. Wear personal protective equipment. Avoid contact with skin and eyes. Shut off leak if safe to do so. Remove or isolate ignition sources. Contain spill. Avoid run off into drains or sewers. Do not contaminate watercourses or the ground. Take precautions against static discharge. Bound or ground (earth) all equipment. Ventilate contaminated area.

For large spills (more than a drum), recover liquid and transfer by mechanical means to labelled salvage tank that can be sealed for recovery or disposal of product. Allow residues to evaporate. Water can be used to disperse vapours and to clean spill area although prevent water from entering sewers or drains. Remove any contaminated soil and dispose of safely by waste management company.

For small spills, absorb with an appropriate material, e.g., vermiculite, and dispose of waste safely in a labelled sealed container for recovery or disposal.

If contamination of drains, sewers or waterways occurs immediately notify Emergency Services (111).

**DISPOSAL:** Dispose of contaminated waste or product to an approved landfill in accordance with local regulations.

### **HANDLING & STORAGE**

**HANDLING:** Read label before use. Use only in well-ventilated areas. Avoid breathing vapors or direct contact with product. Wear personal protective equipment. Remove ignition sources. Avoid sparks. No Smoking. Use only in well-ventilated area. Keep container closed when not in use. Wear personal protective equipment to prevent breathing of and contact with product. Wear gloves and protect eyes from splashes. Wash hands and exposed skin after handling.

**STORAGE:** Ensure all storage areas have adequate fire-fighting equipment. Store in closed original container in a secure cool dry well-ventilated place, away from sunlight, ignition sources, heat, incompatible substances (combustibles, oxidizing agents, strong bases), out of reach of children, and away from food, drink and animal foodstuffs. All equipment must be grounded/bonded when transferring product to avoid static discharge. Suitable packaging/storage materials are steel, stainless steel, nickel, polyethylene, polypropylene and glass. Do not use aluminium.

### **EXPOSURE CONTROLS & PERSONAL PROTECTION**

**EXPOSURE GUIDELINES:** NZ Workplace Exposure Standards (WES) have been set by Worksafe NZ (April 2022) for this substance.

	WES-TWA
2-Butoxyethanol	25 ppm (121 mg/m <sup>3</sup> ) skin

**ENGINEERING CONTROLS:** Use only in a well-ventilated area. If airborne concentrations unknown or exceed exposure limits, wear respiratory protective equipment. A gas filter for gases/vapours of organic compounds (boiling point >65 °C) is suitable. Where air-filtering respirators are unsuitable (e.g., air-borne concentrations are high, risk of oxygen deficiency, confined space) use positive pressure breathing apparatus.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):** Wear impervious protective clothing including safety shoes or boots. Wear appropriate chemical resistant gloves, e.g., butyl rubber. Avoid contact with eyes. Wear face shield or chemical goggles if splash or aerosol/mist exposure risk. Refer to the relevant AS/NZ standards for appropriate personal protective equipment.

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### **PHYSICAL & CHEMICAL PROPERTIES**

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear, colourless
<b>Odour:</b>	Pleasant, sweet odour
<b>Boiling point (0C):</b>	171
<b>Flash point (0C):</b>	67.0
<b>Flammability limits in air (%v/v):</b>	unknown
<b>Auto ignition temperature (0C):</b>	230
<b>Vapour pressure (hPa at 250C):</b>	1.17
<b>Density at 200C, g/cc:</b>	0.90
<b>Solubility in water:</b>	Completely soluble
<b>pH:</b>	Not available
<b>Vapour density (air =1):</b>	4.1
<b>Evaporation rate (nBuAc =1):</b>	0.1

### **STABILITY & REACTIVITY**

**STABILITY (CONDITIONS TO AVOID):** Stable under normal storage and use conditions. Avoid heat, sparks, open flames and other ignition sources or contact with incompatible substances (strong oxidizers, strong bases) and combustible materials. Unstable when exposed to air; peroxidation resulted in an increased fire or explosion risk.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizers, strong bases and combustible materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Dependent on conditions under which decomposition occurs; gases (carbon monoxide, carbon dioxide) will be evolved.

**HAZARDOUS POLYMERIZATION:** Not known to occur. Can oxidise at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.

### **TOXICOLOGICAL INFORMATION**

**POTENTIAL HEALTH EFFECTS:** This section includes possible adverse effects, which might occur if this product is not handled in the recommended manner.

**INGESTION:** Harmful. Risk of aspiration pneumonia. If large quantities swallowed, central nervous system depression effects with symptoms of headache, nausea, dizziness, mental confusion, runny nose. Haemogramme/blood composition and urine composition affected.

**INHALATION:** Harmful. Metallic taste. Effects and symptoms as described by INGESTION.

**SKIN CONTACT:** May be harmful. Symptoms as described for INGESTION.

**EYE CONTACT:** Mild to moderate irritant to eyes. Symptoms can include tearing, redness, and burning.

**SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:** Central nervous system depressant; affects stomach, kidneys and liver.

**CANCER INFORMATION:** Not classified as carcinogen.

**TERATOLOGY (BIRTH DEFECTS) AND REPRODUCTIVE DEFECTS:** Not classified.

**MUTAGENICITY (EFFECTS ON GENETIC MATERIAL):** Not a mutagen.

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**Toxicity data:**

Oral, guinea pig LD50 1414 mg/kg b.w.  
Inhalation, LC50 (4hr) rat 2.174 mg/L

**Additional information:** No specific information.

**ECOLOGICAL INFORMATION**

**ENVIRONMENTAL FATE:** This product has been classified as not being ecotoxic in the aquatic environment but is harmful to terrestrial vertebrates. However, do NOT discharge to sewer or any waterway.

**MOVEMENT AND PARTITIONING:** Product is soluble in water.

**DEGRADATION AND PERSISTENCE:** Not expected to bio accumulate significantly and is readily biodegradable. Product is mobile in soil and may contaminate groundwater. In soil, estimated half-life is 7 days to 4 weeks. Estimated half-life in ground water ranges from 14 days to 8 weeks. Avoid contamination of drains and waterways. Estimated photo degradation half-life in air is 16 to 27.5 hours.

**ECOTOXICOLOGY:** No EEL has been set for this substance.

**DISPOSAL CONSIDERATIONS**

Recover and recycle (e.g., re-distillation) product whenever possible. Dispose of waste in accordance with Regional Authority or local council bylaws. Options may include incineration. Ensure empty containers are vented and dry. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send clean dry drums to recycler or metal scrap reclaiming. Do not use empty drums for storing other products.

**TRANSPORT INFORMATION**

This product is not classified as a Dangerous Good for transport as per NZS 5433

**REGULATORY INFORMATION**

**HSNO Classifications:** 3.1D, 6.1D (o), 6.1D (i), 6.4A  
**EPA New Zealand Approval Code:** HSR001154; Ethanol, 2-butoxy

**OTHER INFORMATION**

**Key to abbreviations:**

CAS No.	Chemical Abstracts Service Number
EPA	Environmental Risk Management Authority
HSNO	Hazardous Substances & New Organisms
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
WES	Workplace Exposure Standard

**REFERENCES:**

Chemical Classification and Information database; [www.epa.govt.nz](http://www.epa.govt.nz)  
Supplier Safety Data Sheet

**End of SDS.**