

SOLVENT SUPPLIES LTD

33 Miro Street
Otaki NZ
Website: www.solventsupplies.co.nz

Fax: (04) 902 1857
Email: ss1994ltd@gmail.com

Date: April 2019
Issue Number: 2

Section 1: Identification of the Material and Supplier

Product Name: Ethylene glycol monobutyl ether (EGMBE)
Other Names: 2-Butoxyethanol; butyl glycol; glycol ether EB; ethylene glycol n-butyl ether; ethanol, 2-butoxy-
Recommended use: Chemical intermediate, solvent, stabilizing agent
Company Name: Solvent Supplies Limited
Address: 33 Miro Street, Otaki, New Zealand
PO Box 2019
Raumati Beach
Paraparaumu

Fax: 04 902 1857 **Email:** ss1994ltd@gmail.com

Emergency Telephone: **Police, Fire And Ambulance: 111**

New Zealand: **0800 737 363 Monday to Friday 8.00am – 4.30pm**
New Zealand Poisons Centre: 0800 764 766

Section 2: Hazards Identification

Hazardous substance according to the HSNO Act 1996 Hazardous Substances (Classification) Notice 2017.

EPA New Zealand Approval Code: HSR001154

Refer to www.epa.govt.nz for Controls for this substance.

HSNO Hazard Classification: 3.1D, 6.1D, 6.3B, 6.4A, 9.3C.

Pictograms:



Signal Word: **WARNING**

Hazard statements:

H227	Combustible liquid.
H302	Harmful if swallowed.

Ethylene glycol monobutyl ether © Solvent Supplies Ltd

Date: April 2019

Review: March 2024

H313	Maybe harmful in contact with skin.
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H433	Harmful to terrestrial vertebrates.

Precaution Statements

P102	Keep out of reach of children.
P103	Read label before reuse.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261	Avoid breathing vapours.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing, gloves and eye/face protection.

Response Statements:

P301+P312	If swallowed call a Poison Centre or doctor if you feel unwell.
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice.
P304+P340	If inhaled: remove to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a Poison Centre or a doctor if you feel unwell.
P305+P351 +P338	If in eyes: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. 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.

Storage Statement:

P403+P235	Store in well ventilated place. Keep cool.
-----------	--

Disposal Statement:

P501	Dispose of product to a solvent recycling facility or approved landfill in accordance with any local regulations.
------	---

Section 3: Composition/Information on Ingredients

Chemical Ingredient:	CAS No:	% w/w
2-Butoxyethanol	111-76-2	100

Section 4: First Aid Measures

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

Ethylene glycol monobutyl ether © Solvent Supplies Ltd

Date: April 2019

Review: March 2024

Page 2

Ingestion:	Rinse mouth with water. Give water to drink. Do NOT induce vomiting. Call a POISON CENTRE or doctor immediately for advice if person feels unwell. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
Inhalation:	Move person to fresh air and keep warm and at rest until recovered. Call a Poison Centre or doctor if person feels unwell.
Skin Contact:	Remove immediately all contaminated clothing. Wash affected area with plenty of water followed by soap and water. If irritation occurs, get medical attention. Wash contaminated clothing before reusing.
Eye Contact:	Hold eyes open and rinse continuously 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.

Section 5:	Fire Fighting Measures
------------	------------------------

Extinguishing Media:	Use dry chemical powder, carbon dioxide, sand or earth for small fires only. Do not use water in a jet.
Fire & Explosion Hazards:	In case of fire, avoid breathing smoke. Toxic gases and vapours may be generated including carbon monoxide and carbon dioxide. Prevent extinguishing water from getting into the aquatic environment.
Specific Hazards:	Cool fire exposed containers by spraying with water.
Fire-fighting equipment:	Wear self-contained breathing apparatus and personal protection clothing.

Section 6:	Accidental Release Measures
------------	-----------------------------

Spills:	<p>Wear personal protective equipment. Avoid contact with skin and eyes. Combustible liquid. Shut off leak if safe to do so. Remove or isolate ignition sources. Take precautions against static discharge. Bound or ground (earth) all equipment. Use non-sparking tools. Ventilate contaminated area. Isolate hazard area and keep unnecessary and unprotected people away from area. Stay upwind and keep out of low lying areas.</p> <p><i>Contain spill.</i> Avoid run off into drains and sewers. Do not contaminate watercourses or the ground.</p> <p><i>For large spills (more than a drum):</i> Recover liquid and transfer by mechanical means to labeled salvage tank that can be sealed for recovery or disposal of product. Do not flush away residues with water. Allow residues to evaporate. Remove any contaminated soil and dispose of safely by waste management company.</p> <p><i>For small spills:</i> Absorb with an appropriate material e.g. vermiculite, and dispose of waste safely in a labeled sealed container for recovery or disposal.</p>
----------------	---

	If contamination of drains, sewers or water ways occurs immediately notify Emergency Services (111).
Disposal:	Dispose of contaminated waste or product to a solvent recycling facility or to an approved landfill in accordance with local regulations.

Section 7:	Handling and Storage
------------	----------------------

Handling:	Combustible liquid. Read label before use. Wear personal protective equipment. Wash hands and exposed skin after handling. Keep container closed when not in use. Use only in well ventilated areas. No smoking. Avoid breathing vapours or direct contact with product. Remove ignition sources. Avoid sparks. All equipment must be grounded/bonded when transferring product to avoid static discharge.
Storage:	Ensure all storage areas have adequate fire-fighting equipment. Store securely in closed original container in a cool, dry well ventilated place away from sunlight, ignition sources, heat, incompatible substances, aerosols, other flammables, oxidizing agents and corrosives. Keep out of the reach of children and away from food, drink and animal foodstuffs. Vapour heavier than air. Take precautions to avoid accumulation of vapours in pits and confined spaces.
Recommended Materials:	Steel, stainless steel. Nickel, polyethylene, polypropylene, glass.
Unsuitable Materials:	Aluminum.

Section 8:	Exposure Controls/Personal Protection
------------	---------------------------------------

Health Exposure Guidelines:

NZ Workplace Exposure Standards (WES) has been set for components in this product.

	WES-TWA	WES-STEL
2-Butoxyethanol <small>SKIN</small>	25 ppm (121 mg/m ³)	-

Engineering Controls:	Use only in 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 or 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.

Section 9: Physical and Chemical Properties

Property	Unit of Measurement	Typical Value
Appearance:	-	Clear, colourless liquid
Odour:	-	Pleasant, sweet
Odour Threshold:	-	Not available
pH:		Not applicable
Melting Point/Freezing Point:	°C	Not available
Boiling Point/Boiling Range:	°C	171
Flash Point:	°C	67
Flammability:	Solid, gas	Not applicable
Upper/lower flammability limits in air:	%v/v	Not available
Vapour Pressure @ 20°C:	Pa	1.17
Vapour Density:	air=1	4.1
Relative Density @20°C :	g/cc	0.90
Solubility in Water:		Soluble
Partition coefficient:	n-octanol/water	Not available
Auto-ignition temperature:	°C	Not available
Decomposition temperature:	°C	230
Kinematic viscosity:		Not available
Volatile organic carbon content:		Not available
Evaporation rate:	nBuAc=1	0.1

Section 10: Stability and Activity

Chemical Stability:	Stable under normal conditions of storage and use.
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.
Incompatibility (materials to avoid):	Strong oxidizing agents, strong bases and combustible materials.
Hazardous decomposition product:	Dependent on conditions under which decomposition (combustion, thermal) occurs. A complex mixture of airborne solids and gases (carbon monoxide, carbon dioxide) will be evolved.
Hazardous polymerization:	Not known to occur.

Section 11: Toxicological Information

Potential Health effects: This section includes possible adverse effects which could occur if this product is not handled in the recommended manner.

Acute Toxicity:	Harmful if swallowed or inhaled. May be harmful if absorbed through the skin. Metallic taste. If large quantity ingested, central nervous system depression with symptoms of headache, nausea, dizziness, mental
------------------------	--

	confusion and runny nose. Blood and urine composition may also be affected.
Aspiration Hazard:	Not classified with aspiration hazard, however there is a risk of chemical pneumonitis if product is swallowed then aspirated into lungs.
Respiratory Irritation:	Inhalation of vapours may be irritating to the respiratory system.
Skin Corrosion/Irritation:	Mild skin irritant.
Serious Eye Damage/Irritation:	Irritating to the eyes. Symptoms may include tearing, redness and burning sensation.
Respiratory or Skin Sensitization:	Not identified as contact sensitizer.
Germ Cell Mutagenicity:	Not identified with mutagenic properties.
Carcinogenicity:	Not identified with carcinogenic properties.
Reproductive Toxicity:	Not classified with adverse effects on fertility or the unborn child.
Specific Organ Toxicity (Repeated and Single Exposure):	Not classified.
Narcotic Effects:	No information available.
Toxicological Information:	Oral, guinea pig, LD ₅₀ , 1414 mg/kg b.w. Inhalation, rat, LC ₅₀ , (4h), 2.174 mg/L
Additional Information:	Not available.

Section 12:	Hazard Identification
-------------	-----------------------

Eco-Toxicity:	Product is harmful to terrestrial vertebrates. This product has not been classified as being eco-toxic in the aquatic environment however do NOT discharge to sewer or any waterway.
Persistence and Biodegradability:	Readily biodegradable. Not expected to bio-accumulate significantly. Product is mobile in soil and may contaminate groundwater. In soil, estimated half-life is 7 days to 4 weeks. Estimated half-life in groundwater ranges from 14 days to 8 weeks. Estimated photo degradation half-life in air is 16 to 27.5 hours.
Potential for Bio-Accumulation:	Not expected to bio-accumulate significantly.
Mobility in soil:	Product is mobile in soil and may contaminate groundwater.
Other Adverse Effects:	Not available.
Eco-Toxicity Data:	Not available.

Section 13:	Disposal Considerations
-------------	-------------------------

Disposal:

Recover and recycle (e.g. predistillation facility) product whenever possible. Send clean, dry drums to recycling facility or metal scrap re-claimer. Dispose of waste in accordance with Regional Authority or local council bylaws.

Special Precautions:

Ensure empty containers are vented and dry. Residues may cause an explosion hazard. Do not puncture, cut or weld unclean drums. Do not use empty drums for storing other products.

Section 14:	Transport Information
-------------	-----------------------

This product is not classified as a Dangerous Goods.

Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2012 Transport of Dangerous Goods on Land for information.

UN No	Not regulated
Proper Shipping Name:	-
Class:	-
Packing Group:	-
Hazchem:	-
Marine Pollutant:	No

Section 15:	Regulatory Information
-------------	------------------------

Hazardous substance according to the HSNO Act 1996 Hazardous Substances (Classification) Notice 2017.

HSNO Substance Approval Code: HSR001154; Ethanol, 2-butoxy-

Refer to Section 2 for hazardous classification and to www.epa.govt.nz for controls and conditions. For additional compliance information, refer to Worksafe NZ www.worksafe.govt.nz

Section 16:	Other Information
-------------	-------------------

Issue Date: April 2019.
Replaces: Safety Data Sheet dated 13 March 2014.
Reasons for Issue: Review of Safety Data Sheet and product information.

Abbreviations:

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

References:

Chemical Classification and Information Database (CCID); www.epa.govt.nz
Supplier Data Sheets for components.

Safety data sheets are updated frequently. Please ensure you have a current copy.

Ethylene glycol monobutyl ether © Solvent Supplies Ltd

Date: April 2019

Review: March 2024

Disclaimer:

Before using any product, read its label carefully and ensure that you understand its contents. The information contained herein is based on data considered accurate and reliable to the best of our knowledge and belief of the date compiled. However no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use hereof. Solvent Supplies Limited assumes no responsibility for personal injury or property damage to vendors, users or third parties caused by the material. Such users or vendor assume all risks associated with the use of the material. It is the user's responsibility to satisfy themselves as to the suitability and completeness of the information for their own particular use. The users must determine whether the use of the information and data is in accordance with local laws and regulations.